

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack April 26, '90	Nil	Weather—seasonable. Lands are being prepared for <i>beali</i> paddy.
	39 Pooree ...	...	Report not received.
	40 Balasore „ 26, '90	0.06	Weather—warm. Cultivation much benefited by rain in the Bhuddruck sub-division and parts of the Sudder subdivision. Number of coolies on tank works has fallen to 92 owing to heavy rainfall.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh April 26, '90	Nil	Weather—seasonable; very hot. Sugarcane doing well. <i>Mohua</i> harvest nearly finished. Mango injured by high wind.
	42 Lohardugga „ 26, '90	Nil	Weather—seasonable. Lands are being ploughed for early rice. Mangoes in abundance.
	43 Singbhoom „ 26, '90	Nil	A little rain in eastern part of Dhalbhoom. Weather very hot; thermometer 108° and 109° in shade. Very cloudy this morning (26th). Sugarcane is being planted. <i>Mohua</i> and mango generally doing well. Prices continue to be easy.
	44 Manbhoom „ 26, '90	0.46	Weather—windy; rain threatening. Slight rain during the week has facilitated ploughing. No crop on the ground except sugarcane.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 29th April, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
20th to 26th April 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
April	20th	154.5	8.6	29.776	86.3	94.7	15.4	79.3	78.6	0.879	75.3	71	SW, SSW and variable.	185	Nil	Partially cloudy, o, t, <.
"	21st	151.3	8.3	29.689	84.1	93.4	17.1	76.3	78.2	.891	75.7	77	SSW, SSE and variable.	194	0.96	Partially cloudy, p, t, <, ▲.
"	22nd	148.4	8.6	29.631	85.4	91.6	18.6	73.0	80.7	.990	78.0	81	SSE, SSW and S ...	195	Not measurable.	Partially cloudy t, <, d.
"	23rd	150.0	8.7	29.598	88.1	97.5	17.1	80.4	81.8	1.004	79.4	76	SSW and S ...	182	Nil	Chiefly clear.
"	24th	154.6	8.8	29.651	90.0	105.6	25.4	80.2	80.6	0.923	76.8	69	SSW, S and variable	154	"	Clear.
"	25th	149.7	6.6	29.577	88.6	98.4	19.0	79.4	81.6	.987	78.8	74	S and variable ...	61	"	Chiefly cloudy, o.
"	26th	149.8	5.5	29.701	85.0	94.0	16.8	77.2	77.6	.850	74.3	71	ESE and variable ...	58	0.03	Chiefly cloudy, o, t, <, d.

The mean pressure of the seven days ...	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	...	...	...	29.646
The total number of hours of bright sunshine ...	...	...	...	Hours.
The maximum possible number of hours of sunshine ...	...	...	...	55.1
The mean temperature of the seven days ...	...	...	...	°
The average temperature of the corresponding period for 24 years, S.-G.'s Office	...	...	...	86.8
The extreme variation of temperature ...	...	...	...	84.4
The maximum temperature ...	...	...	...	32.6
The highest velocity of the wind in one hour ...	...	...	...	Miles.
The highest pressure of wind on one square foot ...	...	...	Approximately	7
The mean relative humidity ...	...	...	...	74
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	...	...	...	72
The total fall of rain from 20th to 26th April 1890 ...	...	...	...	Inches.
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	...	...	0.99
The total fall from 1st January to 26th April 1890 ...	...	...	...	0.86
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	...	...	2.09
The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.	...	...	...	4.46

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph

The mouth of the rain-gauge is one foot above the ground.

o overcast, t thunder, < lightning, p passing temporary showers, ▲ drizzling rain, ▲ hail.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 28th April 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, S.A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, S.A.M., temperature.
ORISSA.	Pooree	Pooree	29.749	29.761	—	SW	457	89.2	21st April	80.6	19, 20, 24th April	83.1	80.9	84.5	—	82.2
	Gopalpore	29.745	29.767	—0.063	SSW	539.7	80.2	19, 21	78.8	19th	86.8	80.4	83.2	+0.1	83.2	
	False Point	29.739	29.786	—0.088	SSW	473.0	90.5	25th	79.2	19th	89.4	80.3	84.9	+0.4	85.2	
	Cuttack	Cuttack	29.672	29.753	—0.071	SW	161.9	103.9	25th	78.4	19th	105.0	79.9	92.4	+2.2	86.3
SOUTH-WEST BENGAL.	Balasore	Balasore	29.665	29.724	—0.100	S	233.6	104.5	24th, 25th April	73.8	21st	97.6	78.3	88.0	+1.6	84.9
	South-West Midnapore	Saugor Island	29.717	29.743	—0.092	SSW	566	92.7	24th	79.0	19th	91.3	81.9	86.6	+1.2	85.9
	South 24-Pergunnahs	Midnapore	29.574	29.724	—0.090	S	198.2	113.4	25th	77.1	21st	105.1	78.7	92.0	+2.3	85.2
	24-Pergunnahs	Calcutta	29.707	29.729	—0.094	SSW	175	105.4	25th	78.2	22nd	95.4	77.5	86.5	+0.9	84.6
	Howrah															
	Hooghly															
	Burdwan	Burdwan	29.613	29.713	—0.097	South-westerly.	122.3	108.7	25th	71.9	20th	100.1	77.9	89.0	+0.7	85.3
	Bankoora	Bankoora	29.407	29.706	—0.079	Calm	120.0	111.2	25th	67.6	19th	102.3	76.3	89.3	+0.4	84.2
	Beerbhoom	Raneegunge	29.306	29.730	—0.077	ESE	145.0	110.7	25th	70.9	19th	101.3	77.0	89.1	+0.4	82.5
	West Burdwan															
EAST BENGAL.	Moorsheadabad	Berhampore	29.660	29.728	—0.084	E	109.8	105.2	25th	72.3	19, 20 & 22 April	96.0	74.9	85.5	—2.1	75.4
	Nudda	Krishnagar	29.679	29.727	—0.070	SSE	175.4	106.8	25th	66.1	19th	97.7	74.0	85.9	+0.2	82.8
	Jessore	Jessore	29.711	29.745	—0.071	SE	168.1	96.8	25th	70.9	19th	93.5	76.6	84.5	—1.0	81.9
	Khoolna															
	Chittagong	Chittagong	29.735	29.825	—0.071	SE	142.7	91.3	20th	70.0	21st	87.9	74.4	81.1	+0.1	79.6
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	29.755	29.767	—0.076	S	149.2	92.8	24th April	68.9	22nd	90.0	74.8	82.4	—0.7	81.9
	Noakholly	Noakholly	29.764	29.808	—0.069	SE	152.9	96.0	21st	67.8	21st	87.3	72.8	80.1	—2.8	80.3
	Furreedpore	Furreedpore	29.732	29.772	—0.080	SE	135.0	94.3	25th	69.9	22nd & 23rd April	88.5	72.9	80.7	—2.9	79.6
	Dacca	Dacca	29.746	29.769	—0.081	SE	179.8	95.1	25th	68.2	19th	89.0	72.0	80.5	—2.8	78.2
NORTH BENGAL.	Commillah	Commillah	29.764	29.799	—0.067	South-easterly.	209.2	97.8	23rd	64.4	19th	81.4	71.4	81.4	—0.5	79.9
	Mymensingh	Mymensingh	29.728	29.787	—0.034	ESE	156.7	91.2	25th	64.7	19th	84.4	69.6	77.1	—4.2	74.4
	Bogra	Bogra	29.685	29.740	—0.052	ENE	114.4	92.7	23th	69.1	19th, 20th April	86.1	71.6	78.8	—6.7	76.3
	Pubna	Serajunge	29.714	29.762	—0.069	South-easterly.	131.9	92.0	25th	67.9	19th	85.9	71.8	78.8	—4.7	76.2
	Rajshahye	Rampore Beau-lieu.	29.673	29.744	—0.060	ENE	97.7	98.6	25th	69.2	19th	80.9	72.7	81.3	—4.2	77.4
	Maldah	Maldah	29.676	29.758	+0.023	E	94.5	98.5	25th	65.6	19th	92.7	72.7	82.7	—2.0	78.0
	Dinapore	Dinapore	29.656	29.778	—0.065	ENE	156.4	92.1	1st & 25th April	67.2	19th	88.5	71.6	80.1	—5.8	76.2
	Rungpore	Rungpore	29.666	29.793	—0.041	E	61.3	91.6	25th	66.1	19th	86.9	71.2	79.0	—1.2	76.6
	Jalpigoree	Jalpigoree	29.478	29.770	—0.069	?	269.7	88.6	25th	63.9	19th	84.7	68.8	76.8	—1.5	75.0
	Cooch Behar															
NORTH BEHAR.	Darjeeling Hill Tracts	Darjeeling	22.501	—	—	WSW	155.0	64.4	25th	45.7	19th	66.1	50.2	55.1	—0.1	54.8
	Purneah	Purneah	29.634	29.762	—0.048	ENE & ESE	116.3	96.7	25th	67.5	19th	93.2	73.0	83.1	—1.2	79.4
	South Bhagulpore															
	Mozufferpore	Mozufferpore	?	?	?	ESE	?	101.9	19th	74.2	19th	96.7	76.5	86.6	—	79.9
	Durbhunga	Durbhunga	29.578	29.747	—0.037	ESE	175.0	97.6	24th	?	?	93.6	?	?	?	79.6
	Chumpran	Motihari	29.516	29.746	—0.037	ESE	215.4	99.2	21th	69.8	19th, 20th April	93.6	74.0	84.9	+1.6	81.3
	Saran	Chupra	29.524	29.717	—0.090	E	175.1	105.3	25th	69.7	24th	100.0	73.5	86.8	+0.7	83.2
	Shahabad	Dehree	29.385	29.734	—0.046	W	145.3	110.9	25th	74.2	21st	106.4	79.4	92.9	+4.6	90.9
		Buxar	29.475	29.715	—0.066	ENE	168.1	106.4	25th	75.8	20th	102.5	78.9	90.7	+3.3	85.6
		Arrah	29.511	29.706	—0.066	E	213.7	107.4	25th	72.7	20th	104.5	77.0	89.7	+2.1	83.9
SOUTH BEHAR.	Gya	Gya														
	Patna	Bankipore	29.534	29.718	—0.071	E	163.9	106.6	25th	72.2	20th	100.9	75.6	88.3	+0.5	82.1
	South Bhagulpore	Bhagulpore	29.562	29.726	—0.060	E	83.7	102.7	24th	70.0	19th	94.9	74.4	84.7	—1.0	78.7
	Monghyr															
	Sonthal Pergunnah	Deomaa	29.221	29.721	—0.073	Easterly	190.0	106.6	25th	67.9	20th	96.2	75.5	85.8	—2.4	80.1
	Hazaribagh	Hazaribagh	27.736	29.714	—0.08	South-westerly.	297.3	104.6	25th	70.5	20th	101.0	76.6	88.3	+1.9	84.6
CENTRAL NAUTICAL.	Lohardugga	Ranchee	27.624	29.709	—0.060	SW	177.6	104.2	25th	70.4	19th	100.7	73.9	87.3	+1.7	87.1
	Manbhoom															
	Singbhoom	Chyebassa	28.565	29.704	—0.169	WSW	74.0	111.8	25th	76.3	21st	107.5	89.9	94.2	+3.1	85.9

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last year. The humidity of the atmosphere is expressed at percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by 10. The numbers are the numerical means or average of the rain fall in that district determined from the returns sent in by the subdivisional stations for the period in question during the past year. The numbers in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 25th of April 1890.

DISTRICT OBSERVATIONS.															Representative station.		DISTRICT.		METEOROLOGICAL DIVISION.
Average humidity at 5 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.														
					Since 1st of month.			Since 15th May 1889.			Average number of rainy days.	Normal number of rainy days.							
			Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.											
90	1.3	Nil	0.01	0.35	0.03	0.93	-0.90	77.62	58.17	+19.45	0.2	0.6	Pooree	Pooree	ORISSA.				
83	1.0	Nil											Gopalpore						
79	5.1	Nil											False Point						
69	0.3	Nil	0.25	0.41	0.31	0.91	-0.60	68.61	54.76	+13.85	0.8	0.7	Cuttack	Cuttack	ORISSA.				
78	0	Nil	0.20	0.52	0.46	1.34	-0.83	52.99	56.98	-3.99	0.7	0.8	Balasore	Balasore					
82	6.7	0.02	0.01	0.79	0.91	1.25	-1.24	59.98	66.26	-6.28	0.3	0.9	Saugor Island	South-West Midnapore					
79	0.7	0.15	0.29	0.61	0.48	1.23	-0.75	47.90	55.42	-7.52	0.7	0.8	Midnapore	Midnapore	SOUTH-WEST BENGAL.				
79	3.9	0.96	0.92	0.49	0.93	1.21	-0.28	55.63	55.63	0	1.6	0.8	Calcutta	24-Pergunnahs...					
75	3.7	1.22	1.34	0.56	1.90	1.44	+0.46	46.39	50.60	-4.21	2.3	1.0	Burdwan	Howrah					
68	3.1	1.01	0.66	0.45	0.66	0.89	-0.23	57.43	54.99	+2.49	1.5	0.9	Bankoora	Bankoora	SOUTH-WEST BENGAL.				
79	4.4	0.60	0.58	0.47	1.14	0.97	+0.17	54.29	54.22	+0.07	1.3	1.0	Raneegunge	Berhoom					
91	7.4	0.41	0.56	0.35	1.47	1.02	+0.45	52.96	53.28	-0.32	1.3	0.9	Berhampore	West Burdwan					
80	5.1	1.23	1.09	0.80	1.82	2.10	-0.28	53.54	54.08	-0.54	2.0	1.3	Krishnagar	Nuddea	SOUTH-WEST BENGAL.				
89	6.9	2.11	1.73	1.09	2.70	2.43	+0.27	57.66	58.97	-1.31	3.4	1.6	Jessore	Jessore					
83	4.0	1.50	1.60	0.77	3.77	1.71	+2.06	106.67	118.27	-11.60	4.0	1.5	Chittagong	Khoolna					
															SOUTH-WEST BENGAL.				
86	5.6	3.31	3.06	1.05	4.00	2.23	+1.77	82.91	82.45	+0.46	3.0	1.7	Barrisal	Chittagong Hill Tracts	EAST BENGAL.				
84	2.6	4.83	4.90	1.14	5.88	3.03	+2.85	99.55	114.97	-15.42	4.5	2.0	Noakholly	Backergunge					
89	5.6	0.68	3.43	1.32	4.33	2.78	+1.60	67.99	62.41	+5.58	3.3	2.1	Furreedpore	Noakholly					
85	5.6	1.58	2.44	1.61	5.56	3.45	+2.05	83.44	67.31	+16.13	3.0	2.3	Dacca	Furreedpore	EAST BENGAL.				
78	5.7	0.54	2.90	1.56	4.20	3.74	+0.46	62.64	78.69	-16.05	3.5	2.2	Commillah	Dacca					
90	8.1	3.46	2.73	1.31	4.95	2.80	+2.15	96.23	78.18	+18.05	2.8	2.1	Mymensingh	Tipperah					
85	8.6	1.12	1.03	0.77	2.07	1.31	+0.76	68.46	60.42	+8.04	2.0	1.8	Bogra	Mymensingh	NORTH BENGAL.				
90	7.9	1.33	1.32	0.94	3.11	2.16	+0.95	60.49	58.06	+2.43	2.5	1.9	Serajgunge	Bogra					
89	5.1	0.84	0.50	0.43	3.20	0.93	+2.27	57.63	56.32	+1.31	1.0	1.0	Rampore Beaulah	Pubna					
84	5.6	0.12	0.18	0.23	0.18	0.72	-0.54	40.08	56.08	-16.00	2.0	0.8	Maldah	Rajshahye	NORTH BENGAL.				
85	7.9	1.06	0.42	0.55	0.80	0.78	+0.02	58.33	59.33	-1.00	1.4	1.2	Dinapore	Maldah					
84	4.1	1.05	1.57	1.20	2.95	2.22	+0.73	88.84	77.94	+10.90	3.0	1.8	Rungpore	Dinapore					
85	3.0	3.83	2.99	1.82	6.53	3.15	+3.38	124.32	116.63	+7.69	4.8	2.8	Julpigoree	Rungpore	NORTH BENGAL.				
93	7.7	2.02	1.54	2.04	4.37	3.78	+0.59	137.90	127.96	+9.94	5.0	3.2	Darjeeling	Julpigoree					
79	5.3	0.90	0.50	0.49	0.59	0.88	-0.29	76.64	69.51	+7.13	1.4	1.2	Purneah	Cooch Behar					
79	1.1	Nil	0.22	0.11	0.23	0.42	-0.19	49.15	44.83	+4.32	0.3	0.5	Mozufferpore	Purneah	NORTH BENGAL.				
79	2.4	0.10	0.12	0.17	0.19	0.42	-0.23	52.36	43.84	+8.52	1.0	0.5	Durbhanga	North Bhagulpore					
66	2.1	Nil	Nil	0.12	Nil	0.48	-0.48	64.11	48.02	+16.09	0.0	0.4	Motihari	Chumparun					
61	0.7	Nil	0.02	0.05	0.02	0.14	-0.12	40.32	43.79	-3.47	0.3	0.3	Chupra	Sarun	NORTH BENGAL.				
84	1.9	Nil	Nil	0.03	Nil	0.15	-0.15	40.40	41.66	-0.57	0.0	0.3	Dehree	Shahabad					
82	1.7	Nil	Nil																
60	2.1	Nil	Nil												SOUTH BENGAL.				
84	1.9	Nil	Nil	0.06	0.02	0.17	-0.15	43.64	42.21	+1.43	0.0	0.2	Bankipore	Gya	SOUTH BENGAL.				
80	7.4	0.04	0.51	0.14	0.51	0.40	+0.11	43.94	44.41	-0.47	0.8	0.3	Bhagulpore	Patna					
80	5.3	1.12	0.56	0.21	0.75	0.55	+0.20	55.34	52.37	+2.97	1.3	0.8	Doomka	South Bhagulpore					
43	0	Nil	Nil	0.09	Nil	0.28	-0.23	43.64	52.07	-8.43	0.0	0.3	Hazaribagh	Monchyr	CHITTA NAPORE.				
36	0	Nil	Nil	0.04	Nil	0.32	-0.32	40.63	50.97	-10.34	0.0	0.3		Sonthal Pergunnahs...					
43	0.3	Nil	Nil	0.17	Nil	0.57	-0.57	49.84	54.20	-4.36	0.0	0.7	Chybassa	Hazaribagh	CHITTA NAPORE.				

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means 17 years. The means of district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of April 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday 19th April.	Sunday, 20th April.	Monday, 21st April.	Tuesday, 22nd April.	Wednesday, 23rd April.	Thursday, 24th April.	Friday, 25th April.	Number of rainy days.	Rainfall week.				
Orissa	Pooree	Pooree	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.55	82.03	53.25
		Khurda	.....	.....	.....	.....	.....	.....	Nil	Nil	0.09	0.60	81.00	58.50
		Banpur	0.05	1	0.05	0.05	0.51	70.08	51.22
		False Point	Nil	Nil	Nil	2.04	77.52	67.79
		Gop	Nil	Nil	Nil	?	?	?
		Satpara	Nil	Nil	Nil	?	?	?
		Pipili	Nil	Nil	Nil	?	?	?
	Cuttack	Jagatsingpore	Nil	Nil	Nil	0.60	76.19	40.16
		Banki	Nil	Nil	Nil	0.20	56.57	51.71
		Cuttack	Nil	Nil	Nil	1.19	77.58	59.40
		Kendrapara	Nil	Nil	Nil	1.00	72.02	55.82
		Jajpore	0.21	0.10	2	0.31	0.32	1.52	59.16	57.38
Balasore	Dharmasala	.....	0.35	0.60	.....	.....	.....	.....	2	0.95	0.95	?	61.05	?
	Salipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73.78	?
	Chandbali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.90	55.71	55.38
	Bhuddruck	.....	0.72	.....	.....	.....	.....	.....	1	0.72	0.80	1.67	61.71	56.07
	Sorah	.....	0.55	.....	.....	.....	.....	.....	1	0.55	0.55	1.47	48.41	55.06
South-West Bengal.	Midnapore	Balasore	0.06	1	0.06	0.88	2.16	50.88	62.81
		Jellapore	Nil	Nil	Nil	0.84	44.48	56.76
		Raripodah	0.45	1	0.45	0.77	0.99	56.07	56.76
		Contai	Nil	Nil	Nil	1.07	57.53	64.73
		Saugor Island	0.02	1	0.02	0.02	1.06	57.09	70.56
	24-Pargunnahs	Tumlook	Nil	Nil	Nil	1.06	50.50	53.24
		Midnapore	0.10	1	0.10	0.67	1.69	47.83	51.36
		Ghatal	0.76	1	0.76	0.76	1.52	45.35	58.58
		Kulrahatty	Nil	Nil	Nil	?	60.77	?
		Garbetta	0.42	1	0.42	0.42	?	51.48	?
	Howrah	Diamond Har-bour	Nil	Nil	Nil	1.73	64.60	63.31
		Canning Town	0.10	1	0.10	0.10	?	58.22	?
Alipore Jail		.....	.....	.....	0.22	.....	.....	.....	1	0.22	0.22	1.03	54.20	60.02
Barrackpore		.....	0.13	.....	0.84	.....	.....	.....	2	0.97	0.97	1.14	53.58	53.99
Dum-Dum		.....	.....	.....	0.80	.....	.....	.....	1	0.80	0.80	1.13	59.69	53.97
Hooghly	Barasat	.....	0.68	.....	2.45	1.01	0.29	.....	4	3.53	3.53	1.30	66.40	59.07
	Buseerhat	.....	.....	.....	.....	.....	.....	.....	2	0.80	0.80	1.42	60.84	55.36
	Howrah	.....	.....	0.62	.....	.....	.....	.....	1	0.62	0.62	0.97	55.49	55.53
	Moheroka (Ooloberish.)	.....	.....	.....	.....	.....	.....	.....	2	0.58	0.58	1.13	56.77	53.82
	Serampore	.....	0.02	.....	0.56	.....	.....	.....	1	0.56	0.56	1.31	58.46	52.01
Surdwan	Hooghly	.....	0.33	.....	.....	.....	.....	.....	1	0.33	0.33	1.49	44.10	58.90
	Jehannabad	.....	0.11	.....	.....	.....	.....	.....	1	0.11	0.11	?	?	?
	Culina	1.30	0.08	1.07	.....	.....	.....	.....	3	2.45	2.45	1.63	44.32	48.47
	Burdwan	.....	0.40	0.80	0.02	.....	.....	.....	3	1.22	1.22	1.60	49.22	51.71
	Cutwa	.....	0.35	.....	.....	.....	.....	.....	1	0.35	1.00	1.19	45.61	51.41
Bankoora	Raneegunge	.....	0.60	.....	.....	.....	.....	.....	1	0.60	0.63	1.14	57.57	51.99
	Manikur	.....	0.85	0.47	.....	.....	.....	.....	2	1.32	1.32	?	55.55	?
	Bankoora	.....	0.77	0.25	.....	.....	.....	.....	2	1.02	1.02	1.16	53.61	54.76
	Biahenpore	.....	0.19	0.81	.....	.....	.....	.....	2	1.00	1.00	1.23	59.43	56.56
	Maliara	.....	0.55	0.08	.....	.....	.....	.....	2	0.63	0.63	0.58	?	?
	Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.56	66.81	66.56
	Jadas	.....	1.20	.....	.....	.....	.....	.....	1	1.26	1.26	?	47.12	?
	Kotalpore	.....	0.26	0.72	.....	.....	.....	.....	2	0.98	0.98	?	51.90	?
	Anda	.....	0.49	.....	.....	.....	.....	.....	1	0.40	0.50	?	41.34	?
	Gangajalghati	.....	0.16	0.32	.....	.....	.....	.....	2	0.48	0.48	?	60.82	?
	Raipur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59.60	?
	Yonamukhi	.....	1.11	.....	.....	.....	.....	.....	1	1.11	1.11	?	54.79	?
Beerbhoom	Yonamukhi	.....	.....	.....	.....	.....	.....	.....	1	1.11	1.11	?	54.79	?
	Bh. Soory	.....	0.85	0.35	.....	.....	.....	.....	2	1.20	1.20	0.84	60.85	56.17
	Hotampore	.....	0.21	.....	.....	.....	.....	.....	1	0.21	2.45	0.83	50.21	56.56
	Rampore Haul	.....	0.30	.....	.....	.....	.....	.....	1	0.30	0.30	1.04	48.48	54.14
	Bolpore	.....	1.81	.....	.....	.....	.....	.....	1	1.81	2.04	?	57.54	?
Nuddes	Murari	.....	0.33	.....	.....	.....	.....	.....	1	0.33	2.73	?	56.30	?
	Ranaghat	.....	0.82	0.01	0.04	.....	.....	.....	3	0.87	1.40	2.17	58.05	51.74
	Kishnaghat	.....	0.54	0.74	.....	.....	.....	.....	2	1.28	1.40	2.03	44.55	50.60
	Choochanga	.....	0.09	0.35	.....	.....	.....	.....	2	0.44	1.85	2.13	51.96	56.11
	Meherpore	.....	.....	1.40	.....	.....	.....	.....	1	1.40	1.76	1.99	55.19	52.67
Khosla	Kooches	.....	1.28	.....	0.19	.....	.....	.....	2	1.47	2.67	2.21	59.39	59.68
	Satkhira	.....	0.01	.....	0.36	2.50	0.80	.....	5	3.73	5.74	1.00	58.28	60.66
	Bagirhat	.....	.....	.....	0.64	0.11	.....	.....	2	0.79	0.96	2.52	56.44	67.16
	Khosla	.....	0.03	0.19	.....	.....	1.01	.....	3	1.23	1.89	2.25	59.01	60.40
	Nakipore	.....	.....	.....	0.56	0.09	.....	.....	2	1.10	1.10	?	?	?
Jessore	Rampal	.....	.....	.....	0.68	.....	.....	.....	1	0.68	1.41	?	?	?
	Narail	.....	0.41	0.03	0.12	0.39	1.06	.....	5	2.01	5.01	2.19	55.40	51.24
	Jessore	.....	0.65	0.04	.....	0.40	0.53	.....	4	2.11	3.38	2.93	67.63	60.09
	Jhenidah	.....	0.97	.....	.....	.....	.....	.....	2	1.70	2.86	2.66	53.80	59.44
	Magoorah	.....	.....	0.03	.....	0.20	0.85	.....	3	1.08	4.02	3.14	61.11	55.56
Moershedabad	Bongong	.....	0.47	.....	.....	0.62	.....	.....	2	1.09	1.09	1.81	49.63	56.45
	Kandi	.....	0.27	0.05	.....	.....	.....	.....	2	0.33	0.32	1.28	56.50	54.16
	Berhampore	.....	.....	0.41	.....	.....	.....	.....	1	0.41	0.41	1.19	46.89	54.56
	Lalbagh	.....	0.22	.....	.....	.....	.....	.....	1	0.22	0.22	0.93	47.40	53.38
	Azimnagar	.....	0.35	.....	0.45	.....	.....	.....	2	0.80	1.19	1.05	53.92	53.92
East Bengal.	Chittagong	Jangipore	0.09	1	0.09	2.09	0.84	57.43	51.34
		Lalgola	0.35	1	0.35	0.80	?	44.22	?
		Jagunje	0.30	1	0.30	1.40	?	44.52	?
		Akhrigunj	0.30	2	1.35	2.85	?	?	?
		Pathabari	0.80	2	1.35	2.85	?	?	?
	Chittagong Hill Tracts.	Cox's Bazar	0.10	0.40	1.03	0.61	4	1.54	4.26	1.38	139.07	139.50
		Chittagong	0.27	0.44	0.51	0.45	4	1.67	3.29	2.62	89.33	99.65
		Kutubdia	1.08	0.96	3	1.63	2.65	?	68.21	?
		Satkanya	0.65	0.31	0.07	3	1.63	2.65	?	68.21	?
		Rangamati	0.16	0.40	0.05	2.08	0.33	5	4.46	4.87	2.47	73.47	90.31
	Barkerunge	Huma	0.07	0.34	0.11	5	4.46	4.87	2.47	73.47	90.31
		Patuakhally	0.17	1.05	1.10	3	2.32	2.17	1.81	91.08	93.31
Perospore		.....	.....	.....	0.27	0.45	.....	.....	2	0.72	2.13	1.89	74.88	74.79
Burrail		.....	.....	.....	0.21	1.54	1.43	0.11	4	3.29	4.16	2.49	78.15	73.96
Rhola		.....	.....	.....	1.25	1.51	2.87	.....	3	5.63	6.51	2.70	87.47	89.01

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of April 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.						TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.	
			Saturday, 19th April.	Sunday, 20th April.	Monday, 21st April.	Tuesday, 22nd April.	Wednesday, 23rd April.	Thursday, 24th April.	Friday, 25th April.	Number of rainy days.					of Rainfall week.
EAST BENGAL—contd.	Gournadi	Gournadi ...	0.45	0.60	0.58	0.57	0.58	0.58	3	4.63	5.25	?	67.91	?	
		Bauphal ...	0.25	0.25	0.25	0.25	0.25	0.25	3	1.43	1.62	?	94.81	?	
		Noakholly ...	0.25	0.25	0.25	0.25	0.25	0.25	4	4.94	5.48	2.58	111.15	115.14	
		Fenny ...	0.25	0.25	0.25	0.25	0.25	0.25	4	4.97	5.48	2.58	111.15	115.06	
	Harishpore	Harishpore ...	0.02	0.03	0.03	0.03	0.03	0.03	2	0.50	?	?	91.35	?	
		Ramganj ...	0.25	0.25	0.25	0.25	0.25	0.25	2	0.50	?	?	91.35	?	
		Furreedpore	Madaripore ...	0.08	0.08	0.08	0.08	0.08	0.08	4	4.81	5.19	2.90	68.07	62.65
		Furreedpore ...	0.15	0.15	0.15	0.15	0.15	0.15	3	0.69	1.45	2.41	63.72	63.44	
	Goalundo	Goalundo ...	0.04	0.04	0.04	0.04	0.04	0.04	3	4.86	6.40	2.64	65.55	59.12	
		Dacca	Munshigunge ...	0.10	0.10	0.10	0.10	0.10	0.10	3	1.50	4.55	3.88	84.22	78.40
		Dacca ...	0.02	0.02	0.02	0.02	0.02	0.02	3	2.16	6.53	3.88	85.59	66.19	
		Narainkunge ...	0.32	0.32	0.32	0.32	0.32	0.32	3	1.67	5.09	3.49	67.55	67.56	
	Manickkunge	Manickkunge ...	0.79	0.79	0.79	0.79	0.79	0.79	3	4.34	5.81	2.82	70.47	85.95	
		Joydehpore ...	1.56	1.56	1.56	1.56	1.56	1.56	3	3.16	6.44	?	75.70	?	
		Hill Tipperah	Agartola ...	0.73	0.73	0.73	0.73	0.73	0.73	2	3.29	6.27	3.93	54.43	70.92
		Tipperah ...	Comilla ...	0.14	0.14	0.14	0.14	0.14	0.14	5	0.61	2.31	3.39	65.57	84.58
	Chandpore	Chandpore ...	0.40	0.40	0.40	0.40	0.40	0.40	3	2.14	4.04	3.29	71.11	81.22	
		Brahmunberis ...	0.04	0.04	0.04	0.04	0.04	0.04	4	1.02	4.16	3.85	58.44	71.05	
		Ramchandrapore ...	0.17	0.17	0.17	0.17	0.17	0.17	4	1.22	2.92	?	64.39	?	
		Nasirnagar ...	3.40	1.40	1.10	1.20	2.40	1.20	6	10.70	13.50	?	52.59	?	
	Daudkandi	Daudkandi ...	0.25	0.25	0.25	0.25	0.25	0.25	Nil	Nil	1.15	?	54.83	?	
		Kasba ...	0.25	0.25	0.25	0.25	0.25	0.25	2	0.68	1.43	?	64.33	?	
		Laksham ...	0.05	0.05	0.05	0.05	0.05	0.05	2	1.02	4.42	?	70.75	?	
		Mymensingh	Kishoregunge ...	0.21	0.21	0.21	0.21	0.21	0.21	2	2.63	3.12	3.57	76.33	77.57
	Atia (Tangail)	Atia (Tangail) ...	0.45	0.45	0.45	0.45	0.45	0.45	2	1.54	5.60	1.93	69.55	59.90	
		Mymensingh ...	0.41	0.41	0.41	0.41	0.41	0.41	3	3.96	5.29	2.92	105.40	89.17	
		Jamelpore ...	1.11	1.11	1.11	1.11	1.11	1.11	2	4.20	7.39	2.31	94.48	69.00	
		Netrakona ...	0.55	0.55	0.55	0.55	0.55	0.55	4	2.50	3.42	3.23	134.78	78.04	
	Satormahally	Satormahally ...	0.60	0.60	0.60	0.60	0.60	0.60	3	4.18	7.71	?	65.31	?	
		Durgapore ...	1.30	0.60	0.80	0.80	0.30	0.84	5	3.64	4.04	?	156.16	?	
		Sherepore ...	0.39	1.81	0.80	0.75	0.30	0.30	3	5.95	9.28	?	98.14	?	
		Sherepore Toten	Deungang ...	1.20	0.80	0.80	0.80	1.30	3	3.30	5.04	?	62.30	?	
	NORTH BENGAL.	Pubna	Pubna ...	1.04	0.22	0.71	0.04	0.04	0.04	2	1.26	1.84	2.39	52.75	58.84
			Seraikunga ...	0.63	0.63	0.63	0.63	0.63	0.63	3	1.38	4.36	1.93	68.17	57.08
Bogra		Sherepore ...	0.05	0.05	0.05	0.05	0.05	0.05	2	1.00	1.62	1.01	64.32	60.82	
		Nowkhilla ...	0.05	0.05	0.05	0.05	0.05	0.05	2	1.05	2.29	1.22	66.47	57.58	
		Bogra ...	0.03	1.05	0.03	0.03	0.03	0.03	2	1.08	2.44	1.05	74.76	63.33	
		Panchibibi ...	0.70	0.70	0.70	0.70	0.70	0.70	2	0.98	1.02	1.25	68.31	58.39	
Bajshhye		Bauleah ...	0.81	0.81	0.81	0.81	0.81	0.81	1	0.81	3.25	0.95	40.69	55.45	
		Natore ...	0.50	0.50	0.50	0.50	0.50	0.50	1	0.54	5.53	1.63	64.50	58.28	
		Naogaon ...	0.26	0.26	0.26	0.26	0.26	0.26	1	0.20	0.83	0.32	58.80	53.43	
		Lalpara ...	1.75	1.75	1.75	1.75	1.75	1.75	2	3.05	3.99	?	40.74	?	
Manda		Manda ...	0.25	0.25	0.25	0.25	0.25	0.25	2	0.31	0.31	?	45.58	?	
		Maldah	Maldah ...	0.07	0.05	0.05	0.05	0.05	0.05	2	0.12	0.12	0.77	50.22	53.72
		Chanchal ...	0.20	0.03	0.03	0.03	0.03	0.03	2	0.23	0.23	0.66	29.19	58.40	
		Gajol ...	0.40	0.40	0.40	0.40	0.40	0.40	1	0.40	0.40	?	40.19	?	
Sibganj		Sibganj ...	0.60	0.60	0.60	0.60	0.60	0.60	1	0.60	0.75	?	52.85	?	
		Dinagopore	Mohadehpore ...	0.06	0.06	0.06	0.06	0.06	0.29	2	0.25	0.55	0.83	54.38	58.56
		Churamon ...	0.20	0.25	0.25	0.25	0.25	0.25	Nil	Nil	0.12	0.41	51.94	53.90	
		Raigunge ...	0.30	0.17	0.17	0.17	0.17	0.17	2	0.55	0.55	0.83	52.29	50.78	
Dinagopore		Dinagopore ...	0.23	0.17	0.17	0.17	0.17	0.17	2	0.40	1.74	1.21	70.07	66.10	
		Raigunge ...	0.81	0.81	0.81	0.81	0.81	0.81	1	0.81	1.02	0.63	62.32	52.05	
		Thakurgaon ...	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.57	?	88.28	?	
		Thakurgaon ...	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.57	?	88.28	?	
Rangpore		Bhawanigunge ...	1.40	0.30	0.30	0.30	0.30	0.05	4	1.95	3.75	2.11	92.14	65.74	
		(Gyabanda) ...	0.75	0.32	0.32	0.32	0.32	0.32	2	1.07	1.52	1.92	76.56	78.14	
		Rangpore ...	0.97	0.72	0.72	0.72	0.72	0.72	4	1.86	4.72	2.78	96.34	78.36	
		Kurigram ...	1.02	0.36	0.36	0.36	0.36	0.36	2	1.38	1.81	2.08	90.30	88.02	
Bagdogra		Bagdogra ...	1.22	1.54	1.54	1.54	1.54	1.54	2	2.76	3.22	?	85.77	?	
		(Nilphamari) ...	0.06	0.06	0.06	0.06	0.06	0.06	4	2.41	3.45	3.28	126.90	122.36	
		Ulipore ...	1.52	0.20	0.09	0.09	1.39	0.05	5	3.25	5.33	?	127.92	?	
		Alipore ...	1.28	0.27	0.08	0.08	2.48	0.48	5	4.50	6.63	?	134.76	?	
Falacotta		Falacotta ...	1.46	0.03	0.03	0.03	0.03	0.03	2	1.43	1.92	?	127.86	?	
		Debiganj ...	0.19	0.02	0.21	0.42	0.13	0.13	5	0.97	2.29	?	141.51	?	
		Bhagatpore ...	0.14	0.14	0.14	0.14	0.14	0.14	4	2.84	6.13	2.77	104.90	101.26	
		(Nagrakatta) ...	0.79	0.70	0.66	0.66	0.66	0.07	6	3.04	10.20	3.05	136.23	134.58	
Cooch Behar		Cooch Behar ...	0.35	0.43	0.13	0.33	0.33	0.33	5	1.02	3.25	2.89	125.63	110.59	
		Mickilgunge ...	1.30	0.41	1.08	0.63	0.07	0.38	6	4.57	9.72	2.82	127.88	117.30	
		Matabhanga ...	0.07	0.25	0.28	0.08	0.23	0.01	6	0.92	7.09	6.70	199.47	202.80	
		Buxa ...	1.00	0.27	0.03	0.18	0.73	0.13	6	2.34	3.41	2.40	124.43	107.81	
Darjeeling Hill		Silliguri ...	0.23	0.23	0.23	0.23	0.23	0.23	4	2.02	4.24	3.05	132.90	115.08	
		Darjeeling ...	0.19	0.21	0.21	0.21	0.21	0.12	4	0.87	2.71	2.36	95.06	88.83	
		Kalnepang ...	0.22	0.02	0.05	0.15	0.16	0.04	7	0.78	1.39	?	171.62	?	
		Kurseong ...	0.05	0.05	0.05	0.05	0.05	0.05	7	0.78	1.39	?	171.62	?	
Purneah		Kissengunge ...	0.39	0.39	0.39	0.39	0.39	0.39	1	0.39	0.73	1.02	104.40	72.54	
		Arrareah ...	0.36	0.36	0.36	0.36	0.36	0.36	1	0.36	0.45	1.20	80.20	36.02	
		Purneah ...	0.08	0.22	0.22	0.22	0.22	0.22	2	0.30	0.30	0.63	63.32	63.44	
		Gondwara ...	0.10	0.10	0.10	0.10	0.10	0.10	Nil	Nil	0.02	?	?	?	
Balerampore		Balerampore ...	0.10	0.10	0.10	0.10	0.10	0.10	1	0.10	0.10	?	?	?	
	Mattari ...	0.23	0.23	0.23	0.23	0.23	0.23	Nil	Nil	Nil	?	?	?		
	Kaliaganj ...	0.23	0.23	0.23	0.23	0.23	0.23	2	0.25	1.26	?	?	?		
	Maddapore ...	0.76	0.76	0.76	0.76	0.76	0.76	2	0.76	0.76	0.68	61.71	51.17		
North Bhagulpore	Scopool ...	0.38	0.39	0.39	0.39	0.39	0.39	2	0.67	0.67	0.59	68.03	40.35		
	Protaganj ...	0.58	0.58	0.58	0.58	0.58	0.58	1	0.58	1.01	?	89.17	?		
	Darbhanga	Tajpore ...	0.10	0.10	0.10	0.10	0.10	0.10	Nil	Nil	Nil	0.20	42.65	44.04	
	Darbhanga ...	0.22	0.05	0.05	0.05	0.05	0.05	2	0.27	0.49	0.64	50.47	47.01		
Madhubani	Madhubani ...	0.22	0.05	0.05	0.05	0.05	0.05	1	0.27	0.49	0.64	50.47	47.01		
	Zahera ...	0.22	0.05	0.05	0.05	0.05	0.05	Nil	Nil	Nil	?	70.09	?		
	Koshera ...	0.22	0.05	0.05	0.05	0.05	0.05	Nil	Nil	Nil	?	55.89	?		
	Mosafferpore	Sitamarhi ...	0.05	0.05	0.05	0.05	0.05	0.05	1	0.05	0.07	0.81	56.166		

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of April 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 19th April.	Sunday, 20th April.	Monday, 21st April.	Tuesday, 22nd April.	Wednesday, 23rd April.	Thursday, 24th April.	Friday, 25th April.	Number of rainy days.	Rainfall week.				
NORTH BEHAR—concluded.	Chumpran...	Motihari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.56	75.52	46.11
		Bottiah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	52.69	49.36
		Bagaha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70.44	?
SOUTH BEHAR	Sarun	Burhara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.93	?
		Gopalgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	55.73	44.36
		Sewan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	44.43	44.90
	Shahabad	Chuprah	Nil	Nil	Nil	Nil	Nil	Nil	0.05	1	0.05	0.05	0.17	40.90	41.39
		Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	47.74	39.42
		Dehree	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	43.02	41.08
		Bhaboah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.12	38.61	42.15
		Samsaram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	30.31	41.59
		Arrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	42.82	41.29
		Mohanish	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
	Gya	Aurungabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.23	55.62	43.85
		Gya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	40.20	43.81
		Nowadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	39.72	41.34
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	33.77	41.07
		Arwal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	34.49	?
		Daudnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	26.69	?
		Sherrghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	29.29	?
		Rajauli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	17.94	?
		Pakri Barawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	31.90	?
	Patna	Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	51.59	42.92
		Dinspore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.21	45.53	42.25
		Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	41.39	43.06
		Barrh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	30.03	40.68
		Sickram	Nil	0.00	Nil	Nil	Nil	Nil	Nil	1	0.00	0.00	?	44.08	?
	Monghyr	Hilsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	35.64	?
		Begoesrai	Nil	0.45	Nil	Nil	Nil	Nil	Nil	1	0.45	0.45	0.23	48.18	41.21
		Monghyr	Nil	0.01	Nil	Nil	Nil	Nil	Nil	1	0.01	0.01	0.21	41.78	47.70
		Jamui	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	39.58	44.46
	South Bhagal-pore.	Gopri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	59.19	?
		Sheikpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.32	?
		Bhagulpore	0.04	Nil	Nil	Nil	Nil	Nil	Nil	1	0.04	0.04	0.65	45.12	45.68
		Banks	1.65	0.48	Nil	Nil	Nil	Nil	Nil	2	2.13	2.45	0.41	40.93	45.02
CHUTIA NAG-PUR.	South Bhagal-pore.	Kolgong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	46.97	?
		Bangson	0.35	Nil	Nil	Nil	Nil	Nil	Nil	1	0.35	0.35	?	?	?
	Sonthal Per-gunnabs.	Rajmehal	Nil	0.75	Nil	Nil	Nil	Nil	Nil	1	0.75	0.75	0.76	60.72	53.68
		Godda	Nil	0.03	Nil	Nil	Nil	Nil	Nil	1	0.03	0.03	0.42	49.77	46.85
		Pakeur	Nil	0.57	Nil	Nil	Nil	Nil	Nil	1	0.57	1.19	0.35	75.02	56.60
		Nya Doonka	0.06	0.46	Nil	Nil	Nil	Nil	Nil	2	0.12	1.32	0.71	58.42	55.42
		Deokhur	Nil	0.40	Nil	Nil	Nil	Nil	Nil	1	0.40	0.40	0.65	41.22	52.53
		Jamara	0.30	0.18	Nil	Nil	Nil	Nil	Nil	2	0.48	0.78	0.45	46.84	50.67
		Mohaguma	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	56.65	?
		Nantlat	0.61	Nil	Nil	Nil	Nil	Nil	Nil	1	0.61	0.76	?	57.63	?
	Hazariabagh...	Pachamba (Girdi)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.45	39.24	49.24
		Hazariabagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	49.51	48.97
		Sontarurab	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	36.98	46.85
		Mahadi Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.10	49.53	49.53
		Jhoomra Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.40	64.05
		Barhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	32.03	?
		Chakra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	47.09	?
		Karagatha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	49.05	?
	Lohardugga...	Ramghar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Lohardugga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	46.73	52.60
		Ranhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	55.23	54.54
		Palamow	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	35.12	44.75
		Silli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	34.30	?
		Balumat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	44.79	?
	Singhbhum...	Hosseinaabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	29.43	?
		Garmah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Chyebassa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.57	49.84	54.32
		Chakradhar-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
	Manbhoom...	Chatilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.32	62.15	?
		Baharagura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	67.97	?
		Purulia	Nil	0.46	Nil	Nil	Nil	Nil	Nil	1	0.46	0.46	0.67	44.95	51.73
	Manbhoom...	Gobindpore	0.03	Nil	Nil	Nil	Nil	Nil	Nil	1	0.03	0.03	0.24	34.08	46.90
		Kaghunath-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	46.32	?
		Barrabhoom	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.82	?
		Jhalda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.80	?
	Chas	Chas	0.38	Nil	Nil	Nil	Nil	Nil	Nil	1	0.38	0.38	?	59.42	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 29th April 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 25TH
OF APRIL 1890.

THE unsettled weather, which was noticed in the report of last week, has continued with very little interruption during the present week. Large and frequent changes have occurred in pressure and temperature, the wind circulation has been almost always cyclonic round a centre well to the west of the province, and thunderstorms with rain, though not very general, have been of daily occurrence.

On Saturday the 19th, the first day of the present week, there was a low-pressure area overlying part of the North-West Provinces and part of Chutia Nagpur. During the previous day a rapid rise of pressure occurred, but the depression remained, and influenced the wind directions in all parts of Bengal, giving south or south-east winds in Lower Bengal and east or north-east winds in North Bengal and Behar. Pressure differed very little from the normal, generally less than a twentieth of an inch above, and very slightly below the normal in Chutia Nagpur. Temperature was largely below the normal in East and North Bengal, and slightly above in Orissa and Behar. On the 19th, rain was general in South-West and North Bengal, and scattered showers fell in the other districts. On the following day pressure continued to rise slowly except in Behar, where the rise was brisk. The low-pressure area was more diffused, wind circulation less regular, but still cyclonic, the centre somewhere in South Behar. Temperature changes on the 20th were not important, and rainfall more scattered. On the 21st a rapid fall of pressure was general, and continued with greater or less rapidity till the end of the week. The depression in the North-West Provinces again intensified, and caused easterly winds over almost the whole of Bengal. The change of pressure in Chutia Nagpur and South Behar was very little under a tenth of an inch, and it gradually diminished towards the north-east, defect being about a twentieth of an inch everywhere except in North Behar and North Bengal. Temperature continued to be largely below the normal over the eastern half of the province, and rain was again less general, numerous showers falling only in the Cooch Behar and Julpigoree districts, and in the Sunderbuns and Chittagong. On the 22nd the fall of pressure continued, briskly in Behar and slowly elsewhere, and defect had now increased to a tenth of an inch in Chutia Nagpur, South-West Bengal, and Orissa. The depression was gradually extending in a south-easterly direction, but as it had the form of a trough extending from the head of the Bay over Chutia Nagpur and the North-Western Provinces, the southerly motion had very little influence on the wind circulation, which remained unchanged till almost the end of the week. Temperature remained low in East and North Bengal till the 23rd, and during the 22nd and 23rd heavy general rain fell in these two districts; but during the last two days of the week, temperature rose very rapidly over the whole of Bengal, and the large defect which had been present for the greater part of the week in East and North Bengal disappeared. On these two days there was a large defect in pressure, everywhere more than a tenth of an inch and in some places very little under two-tenths. On Friday westerly winds were general over South Behar and Chutia Nagpur, and then the lowest pressure was over the head of the Bay near False Point and Saugor Island. Very little rain fell on Thursday and Friday, only a few scattered showers in East and North Bengal.

Pressure—As stated above, has changed rather largely, and was about two-tenths of an inch below the normal at the end of the week. The means for the week are all considerably below the normal, the largest defect being a tenth of an inch at Balasore, and the lowest about a twentieth of an inch over the greater part of North Behar.

Temperature—Was about normal in the western half of the province and four or five degrees below the normal in East and North Bengal till the last two days of the week, when a rapid rise following the almost general stoppage of rain, a large, though somewhat irregular, excess prevailed. The means for the week are above the normal except in East and North Bengal. Excess in Chutia Nagpur, South Behar, and Orissa is over 1°, defect in North Bengal 3·4°, and in East Bengal 1·9°.

The actual temperatures during the week, the range from day to night, and their variations from the normals are seen in the following table; where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 25th April 1890.

	Normal mean maximum temperature for the week ending 25th April.	Actual mean maximum temperature for the week ending 25th April 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 25th April.	Actual mean minimum temperature for the week ending 25th April 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 25th April.	Actual mean daily temperature for the week ending 25th April 1890.	Variation of actual mean from the normal.
Cuttack	101·8	105·0	+3·2	78·7	79·9	+1·2	90·2	92·4	+2·2
Calcutta	96·0	95·4	+0·4	76·2	77·5	+1·3	86·6	86·3	+0·3
Dacca	92·6	89·0	-3·6	74·6	72·0	-2·6	83·6	80·5	-3·1
Burdwan	100·1	100·1	0	76·4	77·9	+1·5	88·2	89·0	+0·8
Patna	101·9	100·9	-1·0	74·9	75·6	+0·7	85·4	88·3	+2·9
Gya	105·4	105·4	0	76·0	76·0	0	90·7	90·7	0
Furness	97·2	93·2	-4·0	72·0	73·0	+1·0	84·6	83·1	-1·5
Razariugh	99·9	101·0	+1·1	73·7	75·6	+1·9	86·8	88·3	+1·5
Darjeeling	91·9	60·1	-31·8	68·6	80·2	+11·6	65·3	55·1	-10·2

Rainfall.—General, and in some cases heavy, rain fell in the northern half of North Bengal on every day except the last; in South-West Bengal on Saturday and Sunday, and in East Bengal on Monday, Tuesday and Wednesday; elsewhere scattered showers have been falling except in part of South Behar and Chutia Nagpur. In the former a few showers fell on the 19th and 20th in Monghyr, South Bhagulpore, and the Sonthal Pergunnahs, and in the latter only three showers are reported from Manbhoom. The mean rainfall for the week is above the normal in South-West, East and North Bengal and South Behar. The excess fall in East Bengal is 1·6 inches, in North and South-West Bengal 0·3 inch, and the defect in Orissa is 0·3 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 25th of April 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages or week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	108·9	73·8	93·2	80·0	86·6	+1·1	0·17	0·44	-0·27	0·5	0·8	-0·3	0·26	1·09	64·78	56·53
South-West Bengal	113·4	66·1	98·1	77·1	87·6	+0·3	0·91	0·63	+0·28	1·8	1·1	+0·7	1·37	1·47	54·75	55·95
East Bengal	97·3	64·4	88·4	72·6	80·5	-1·9	2·86	1·26	+1·60	3·3	2·9	+1·3	4·66	2·87	83·26	80·96
North Bengal	98·6	63·9	87·8	71·5	79·6	-3·4	1·30	0·93	+0·33	2·5	1·4	+1·1	3·92	1·69	76·78	73·88
North Behar	103·3	67·5	96·4	74·3	85·4	+0·4	0·23	0·23	0	0·7	0·5	+0·2	0·27	0·32	58·27	50·12
South Behar*	110·9	67·9	100·6	76·8	88·7	+1·2	0·25	0·11	+0·14	0·5	0·3	+0·2	0·50	0·32	44·74	45·03
Chutia Nagpur	104·6*	70·4*	100·9*	74·3*	87·8*	+1·8*	0·04	0·11	-0·07	0·2	0·4	-0·2	0·04	0·35	44·14	51·43

* Gya and Chyebasse not included.

METEOROLOGICAL OFFICE, BENGAL;

The 29th April 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 20th to 26th April 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
April 1890...	20th ...	29·844	87·9	96·0	16·2	79·8	91·6	81·5	·940	77·3	64	Inches.
" "	21st ...	·751	85·9	95·0	18·2	76·8	91·1	80·9	·918	76·6	61	"
" "	22nd ...	·704	84·5	95·0	21·0	74·0	88·6	82·5	1·030	80·1	77	0·60
" "	23rd ...	·690	86·6	98·8	24·5	74·3	91·6	84·5	1·091	81·9	74	0·11
" "	24th ...	·637	93·5	106·2	25·4	80·8	92·6	84·5	1·077	81·5	71	"
" "	25th ...	·652	89·9	99·4	19·0	80·4	89·1	84·0	1·099	82·1	80	"
" "	26th ...	·772	88·4	98·5	20·2	78·3	88·6	81·7	·990	78·9	73	0·04

The mean 10 A.M. pressure of the seven days Inches.
29·721

The mean temperature of the seven days 88·1

The extreme variation of temperature 32·2

The maximum temperature 106·2

The mean 10 A.M. relative humidity of the seven days %
71

The total fall of rain from 20th to 26th April 1890 Inches.
0·75

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 28th April 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 12th April 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 12th March 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 14.7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 6.6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	26.2	19.3	19.9	19.3	21.7	21.3	14.7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.		22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.
Bardwan	24.6	24.4	25.9	10.7	Narainganj	29.0	16.6	20.7	24.8
Midnapore	17.0	26.3	16.8	10.3	Chittagong	11.7	9.4	4.7	9.4
Hughli and Chinsurah	24.6	33.0	23.0	24.6	Comillah	38.5	23.1	50.1	...
Serampore	21.6	41.2	33.4	11.8	Patna	8.8	13.3	6.8	13.0
Utterpara	47.2	28.3	9.4	...	Gya	25.3	19.1	16.4	19.1
Howrah	21.2	19.6	16.6	14.3	Arrah	56.2	23.9	13.2	16.8
Bali	21.1	17.3	7.0	14.0	Mozafferpore	25.5	13.4	9.7	12.2
Kishnagar	11.4	24.0	9.5	18.9	Darbhanga	25.2	18.1	18.1	22.0
Ranaghat	43.9	...	18.0	22.9	Chupra	23.1	14.1	14.1	2.0
Santipore	35.0	29.8	14.0	17.5	Bhagulpore	16.3	13.6	10.9	14.5
Jessore	30.6	18.4	12.2	18.4	Monohyr	30.7	26.2	20.8	17.2
Rampore Beaulah	31.5	21.0	26.3	23.6	Purneah	3.5	27.7	13.9	17.3
Darjiling	...	37.0	14.8	14.8	Poori	35.6	29.4	12.6	16.8
Dacca	23.4	20.8	8.4	14.9					

It will be seen that last week the highest birth-rate was returned from Ranaghat (29.9) and the lowest from Chupra (2.0). No births were registered during the week in Utterpara and Comillah towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 27.1 per 1,000 of the population. The rate of the week is 1. higher than the average rate of the corresponding week of the past five years, and also higher than the rate of the corresponding week of any of the past five years except 1885, — vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	
Ratio of deaths per 1,000 of the population per annum	33.4	24.3	25.7	25.5	21.7	26.1	27.1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.		22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.
Bardwan	22.0	24.4	27.5	33.0	Narainganj	4.1	8.3	8.3	41.4
Midnapore	40.6	38.7	12.4	34.1	Chittagong	11.7	7.0	4.7	9.4
Hughli and Chinsurah	23.0	37.7	32.8	60.7	Comillah	43.4	46.2	27.0	19.3
Serampore	47.1	17.7	37.3	31.4	Patna	12.3	17.5	11.4	23.9
Utterpara	47.2	28.3	50.6	28.3	Gya	41.0	66.3	79.2	61.5
Howrah	21.8	14.3	22.9	21.8	Arrah	14.4	16.7	9.6	12.0
Bali	24.6	24.6	31.6	34.6	Mozafferpore	4.9	17.0	13.4	12.2
Kishnagar	11.4	5.7	7.6	17.0	Darbhanga	12.7	23.2	17.3	18.1
Ranaghat	29.9	24.0	6.0	13.0	Chupra	14.1	11.1	13.1	2.0
Santipore	14.0	8.8	10.5	8.7	Bhagulpore	18.1	19.9	8.1	23.5
Jessore	61.2	12.2	18.4	9.1	Monohyr	14.6	9.9	23.5	38.9
Rampore Beaulah	26.3	21.0	34.2	39.4	Purneah	27.7	34.6	17.3	31.2
Darjiling	37.0	44.3	29.6	74.1	Poori	48.3	39.9	39.9	68.7
Dacca	18.2	28.7	13.0	22.1					

It will be seen that last week the highest mortality occurred in the town of Darjiling (74.1) and the lowest in Chupra (2.0).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Small-pox.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Hughli and Chinsurah ...	24.6	Poori ...	8.4	Darjiling ...	59.3	Serampore ...	17.6
Howrah ...	9.2	Howrah ...	2.3	Gya ...	53.3	Midnapore ...	15.5
Dacca ...	4.5			Rampore Beaulah ...	31.5	Poori ...	14.7
Patna City ...	4.5			Purneah ...	27.7	Kishnagar ...	11.3
				Poori ...	25.1		
				Monghyr ...	24.4		
				Burdwan ...	21.4		

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3.2 from cholera, against 1.7 per 1,000 in the preceding week; 1. from small-pox, against .6; 14.7 from fever, against 12.1; 2.2 from bowel-complaints, against 1.9; .2 from injury, against .3; and 5.8 from other causes, against 5.2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	28.6	Christians ...	7.5	Under 1 year ...	159.8
Females ...	25.6	Hindus ...	28.0	1 and under 5 years ...	32.5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	111	Mahomedans ...	24.5	5 " 10 " ...	11.3
				10 " 15 " ...	12.4
				15 " 20 " ...	12.2
				20 " 30 " ...	17.7
				30 " 40 " ...	17.0
				40 " 50 " ...	22.8
				50 " 60 " ...	31.5
				60 years and upwards ...	91.8

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 28th April 1890.

Sanitary Commissioner for Bengal.

DISTRICTS.		NAMES OF MUNICIPALITIES.		POPULATION.		BIRTHS.				MORTALITY ACCORDING TO—										Sex.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				Males.	Females.	Total.	Ratio of male births to every 100 female births.	DEATHS FROM—				DISEASE.						Males.	Females.	Ratio per 1,000 of population per annum.	Ratio of male deaths to every 100 female deaths, calculated on the population.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
								Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.					All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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DISTRICTS, MUNICIPALITIES.			DEATHS AMONG—										CLASS.										DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.										AGE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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BUDDHISTS.	OTHER CLASSES.	CHRISTIANS.	HINDUS.	MUHAMMADANS

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 26th April 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 26TH APRIL 1890.			WEEK ENDING SATURDAY, THE 27TH APRIL 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	224	44,370	620	234	68,955	962
Jute	14	14,600	121	19	9,050	133
Firewood	72	34,650	515	121	87,410	1,013
Other articles	612	1,58,725	2,371	641	2,51,425	2,766
Total	922	2,52,345	3,627	1,015	4,11,840	4,874

Nalhati State Railway.

*Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State
Railway during the month of March 1890, as compared with the same month of the previous year.*

STAPLES.	1889.		1890		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	389	682	389	682	389	682	0	0
Cotton, raw	7	7	7	7	7	7	0	0
Cotton piece-goods—								
1.—European	33	33	33	33	33	33	0	0
Grains—								
1.—Wheat	10	12	10	12	10	12	0	2
2.—Rice	231	53	231	53	231	53	0	0
3.—Gram	28	19	28	19	28	19	0	0
4.—Others	15	40	15	40	15	40	0	0
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	1	1	1	1	1	1	0	0
2.—Skins of sheep, goats and small animals—								
a.—Dressed	1	1	1	1	1	1	0	0
Jute—								
1.—Raw	9	119	9	119	9	119	0	0
2.—Gunny bags and cloths	8	5	8	5	8	5	0	0
Leather, manufactured	1	1	1	1	1	1	0	0
Liquors—								
1.—Beer	1	1	1	1	1	1	0	0
2.—Wines	1	1	1	1	1	1	0	0
Metals—								
1.—Iron	6	4	6	4	6	4	0	0
2.—Others	2	7	2	7	2	7	0	0
Oil—								
1.—Castor	1	2	1	2	1	2	0	0
2.—Kerosine	1	1	1	1	1	1	0	0
3.—Others	9	9	9	9	9	9	0	0
Oilseeds—								
1.—Linseed	3	4	3	4	3	4	0	0
2.—Mustard and rape	122	30	122	30	122	30	0	0
3.—Others	8	8	8	8	8	8	0	0
Provisions—								
1.—Ghee	2	2	2	2	2	2	0	0
2.—Dried fruits and nuts	4	1	4	1	4	1	0	0
3.—Others	27	27	27	27	27	27	0	0
Paper and pasteboard	5	5	5	5	5	5	0	0
Railway plant and rolling-stock	88	12	88	12	88	12	0	0
Salt	28	61	28	61	28	61	0	0
Silk, raw—								
1.—Indian	17	20	17	20	17	20	0	0
Silk piece-goods—								
1.—Indian	5	5	5	5	5	5	0	0
Spices—								
1.—Others	27	22	27	22	27	22	0	0
Stone and lime	32	35	32	35	32	35	0	0
Sugar—								
1.—Drained	1	40	1	40	1	40	0	0
2.—Undrained	16	12	16	12	16	12	0	0
Tobacco	1	8	1	8	1	8	0	0
Timber	1	1	1	1	1	1	0	0
Wool—								
1.—Raw	1	24	1	24	1	24	0	0
All other articles of merchandise	88	332	88	332	88	332	0	0
Total	960	394	1,447	927	1,354	2,374	1,274	254

INCREASE.							Tons.
Coal	...	...	...	...	...	...	293
This is attributable to decrease during last month.							
Grains—							
(2) Rice	...	...	...	...	...	...	409
This is due to greater export owing to high rate at Calcutta.							
(4) Others	...	...	...	...	...	...	40
This is due to import of indigo and buzra seeds.							
Oil-seeds—							
(1) Linseed	...	...	...	...	...	...	46
This is attributable to high rate at Calcutta.							
Jute—							
(1) Raw	...	...	...	...	...	...	119
This is due to there being no traffic under this head last year.							
Salt	...	...	...	...	...	...	33
This is due to sudden increased demand at Murshidabad.							
Sugar—							
(2) Undrained	...	...	...	...	...	...	48
This is imported owing to greater demand at Murshidabad.							
DECREASE.							
Grains—							
(1) Wheat	...	...	...	...	...	...	12
No demand owing to dull market.							
(3) Gram	...	...	...	...	...	...	28
No demand owing to dull market.							
Oil-seeds—							
(2) Mustard and rape	...	...	...	...	...	...	92
This is due to there being no local demand.							
Provisions—							
(4) Others	...	...	...	...	...	...	27
Potatoes being imported by boat.							
Railway plant and rolling-stock	...	...	...	...	...	...	33
Owing to less materials carried during the month.							

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	263,817	3,02,344 10 0	24,96,121 10	6,05,666 10 0	20,750 7 6	9,28,061 11 0	65,881	101,548½	167,429½
Or per mile of railway ...	...	198 3 1	...	396 14 4	13 4 5	604 5 10	...	...	...
For previous 15 weeks of half-year ...	3,854,925	43,88,230 8 0	5,05,96,167 30	9,53,269 1 0	2,97,189 9 9	1,38,38,696 2 9	975,480½	1,433,431½	2,408,911½
Total for 16 weeks ...	4,118,742	46,90,564 2 0	4,20,89,289 0	97,58,735 11 0	3,17,438 0 9	1,47,66,727 13 9	1,041,861½	1,534,960	2,576,821½
COMPARISON.									
Total for corresponding week of previous year ...	232,383½	2,96,501 9 10	29,51,772 0	6,28,814 14 6	26,101 14 2	9,45,418 6 6	65,569	90,480	166,069
Per mile of railway corresponding week of previous year ...	...	194 5 10	...	412 3 3	15 2 10	619 11 11	...	...	...
Total to corresponding date of previous year ...	4,244,026	48,99,409 2 9	4,44,58,569 10	96,83,036 7 6	2,57,658 12 1	1,48,40,499 6 4	1,055,825	1,540,932	2,596,757

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,45,418	620	1,525½	9,28,061	608	1,525½	27,14,616	626	1,525½	25,98,170	568	...	1,16,446

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Totalearnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,690	7,021 1 0	50,847 30	3,734 7 0	43 4 0	10,798 12 0	1,480	914	2,394
Or per mile of railway ...	291½	122 12 0	889 0	65 4 7	0 12 1	188 12 8	.....	.....	.....
For previous 15 weeks of half-year ...	198,476	1,03,397 14 0	7,24,737 30	44,905 15 0	574 3 0	1,48,878 0 0	25,536½	10,231	35,767½
Total for 16 weeks ...	215,166	1,10,418 15 0	7,75,585 20	48,640 6 0	617 7 0	1,59,076 12 0	27,006½	11,145	38,151½
COMPARISON.									
Total for corresponding week of previous year ...	13,413	6,099 12 0	42,627 30	3,504 11 0	48 15 6	9,453 6 6	1,612	892	2,504
Per mile of railway corresponding week of previous year ...	234½	106 10 3	745 10	57 12 5	0 13 8	165 4 4	.....	.....	.....
Total to corresponding date of previous year ...	235,641½	1,20,723 2 7	6,22,921 0	37,539 8 0	1,353 15 9	1,68,616 10 4	29,106	10,683	39,789

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
57½	9,453	165	57½	10,799	189	57½	31,022	181	57½	31,047	181	25	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	28,636	8,874 12 0	13,297 10	406 15 0	9 6 0	9,285 1 0	1,091	214	1,305
Or per mile of railway ...	.....	398 13 10	.....	18 0 4	0 6 9	417 4 11	.....	.....	.....
For previous 15 weeks of half-year ...	329,774	87,894 8 0	2,20,876 20	7,480 12 0	157 13 0	95,533 1 0	13,094	1,448	14,542
Total for 16 weeks ...	358,410	96,769 4 0	2,34,083 30	7,881 11 0	167 3 0	1,04,818 2 0	14,185	1,662	15,847
COMPARISON.									
Total for corresponding week of previous year ...	23,403	6,214 7 1	7,645 10	298 13 0	9 12 0	6,523 0 1	937	53	990
Per mile of railway corresponding week of previous year ...	.....	279 4 10	.....	13 6 10	0 7 0	293 2 8	.....	.....	.....
Total to corresponding date of previous year ...	379,157½	1,00,612 10 2	1,51,614 20	5,460 3 0	113 4 0	1,06,186 1 2	14,789	985	15,774

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
22½	6,523	293	22½	6,285	417	22½	25,021	575	22½	23,555	353	.....	1,461

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 12th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	151,070	77,940 0 0	6,32,170 0	86,840 0 0	14,090 0 0	1,78,870 0 0	22,997	29,533	52,530
Or per mile of railway...	202	104 0 0	840 0	116 0 0	73 0 0	233 0 0	...	...	...
For previous 14 weeks of half-year...	2,252,060	11,04,863 0 0	79,98,750 0	15,07,853 0 0	2,67,916 0 0	*28,80,632 0 0	313,857	413,776	727,633
Total for 15 weeks...	2,403,130	11,82,803 0 0	86,30,920 0	15,94,693 0 0	2,82,006 0 0	30,59,502 0 0	336,854	443,309	780,163
COMPARISON.									
Total for corresponding week of previous year...	134,468	62,099 0 0	4,55,733 0	66,703 0 0	12,058 0 0	1,40,860 0 0	21,607	22,906	44,513
Per mile of railway corresponding period of previous year...	200	92 0 0	677 0	99 0 0	12 0 0	193 0 0	...	...	...
Total to corresponding date of previous year...	2,240,588	11,62,344 0 0	74,16,030 0	12,63,819 0 0	2,65,616 0 0	26,91,819 0 0	322,421	365,790	688,211

* Audited up to week ending 8th February 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 12TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 12TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 12TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,40,860	209	747	1,78,870	239	673	2,86,311	213	747	2,02,448	202	16,137	...

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	27,440	8,730 0 0	59,640 0	3,330 0 0	40 0 0	12,000 0 0	2,735	1,937	5,673
Or per mile of railway...	219	70 0 0	477 0	31 0 0	...	161 0 0	...	...	...
For previous 14 weeks of half-year...	389,920	1,28,918 0 0	6,56,590 0	43,574 0 0	270 0 0	*1,82,102 0 0	50,897	26,513	77,410
Total for 15 weeks...	417,360	1,46,748 0 0	7,16,230 0	47,204 0 0	310 0 0	1,92,762 0 0	54,432	29,480	83,912
COMPARISON.									
Total for corresponding week of previous year...	23,001	7,944 0 0	43,229 0	2,967 0 0	73 0 0	10,984 0 0	2,735	1,937	5,673
Per mile of railway corresponding period of previous year...	184	63 0 0	462 0	24 0 0	1 0 0	88 0 0	...	...	...
Total to corresponding date of previous year...	451,716	1,51,519 0 0	843,825 0	42,390 0 0	4,456 0 0	2,01,365 0 0	55,012	28,591	83,603

* Audited up to week ending 8th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 12TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 12TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 12TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,984	88	125	12,000	101	125	23,624	94	125	22,486	90	...	1,138

DACCRA STATE RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,170	5,490 0 0	23,710 0	1,710 0 0	330 0 0	7,580 0 0	2,450	624	3,074
Or per mile of railway ...	170	64 0 0	270 0	20 0 0	4 0 0	88 0 0	.....	.....	.....
For previous 14 weeks of half-year ...	248,250	80,409 0 0	3,75,360 0	26,748 0 0	2,447 0 0	*1,28,664 0 0	33,658	10,228	43,886
Total for 15 weeks ...	263,420	84,959 0 0	3,99,070 0	28,458 0 0	2,827 0 0	1,30,244 0 0	36,138	10,852	46,990
COMPARISON.									
Total for corresponding period of previous year ...	22,394	5,502 0 0	5,613 0	465 0 0	50 0 0	6,017 0 0	2,537	849	3,386
Per mile of railway corresponding period of previous year ...	260	64 0 0	65 0	5 0 0	1 0 0	70 0 0	.....	.....	.....
Total to corresponding date of previous year ...	242,208	73,731 0 0	1,77,375 0	15,612 0 0	2,439 0 0	91,782 0 0	36,616	10,091	46,707

* Audited up to week ending 8th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 13TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 15TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,017	70	86	7,580	88	86	11,125	65	86	13,680	29	2,555	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 19th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,162	1,181 0 0	9,235 0	642 0 0	16 0 0	1,839 0 0	509	254	763
Or per mile of railway ...	116	43 0 0	340 0	23 0 0	1 0 0	67 0 0	.....	.....	.....
For previous 14 weeks of half-year ...	48,831	17,456 0 0	2,05,992 0	12,403 0 0	1,336 0 0	31,940 0 0	7,417	7,105	14,522
Total for 15 weeks ...	51,993	18,637 0 0	2,15,247 0	13,045 0 0	1,400 0 0	33,085 0 0	7,926	7,369	15,295
COMPARISON.									
Total for corresponding week of previous year ...	2,968	1,451 0 0	5,417 0	397 0 0	15 0 0	1,563 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	109	42 0 0	190 0	14 0 0	1 0 0	57 0 0	.....	.....	.....
Total to corresponding date of previous year ...	54,143	20,548 0 0	1,88,448 0	11,206 0 0	1,415 0 0	33,169 0 0	7,098	7,503	14,601

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1890.			Total increase in 1889-91.	Total decrease in 1889-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,563	57	27½	1,839	67	27½	4,929	60	27½	4,767	58	.....	162

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 19th April 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	47,410	19,787 0 0	2,32,427 0	27,294 0 0	2,918 0 0	40,990 0 0	5,423	7,443	12,865
Or per mile of railway ...	174	73 0 0	851 0	100 0 0	3 0 0	176 0 0*	.....	.....	.....
For previous 14 weeks of half-year ...	705,793	2,92,157 0 0	39,04,218 0	4,43,207 0 0	45,837 0 0	7,51,201 0 0	76,741	143,836	220,577
Total for 15 weeks ...	753,203	3,11,944 0 0	41,36,645 0	4,70,501 0 0	48,755 0 0	8,31,200 0 0	82,163	151,279	233,442
COMPARISON.									
Total for corresponding week of previous year ...	45,563	18,224 0 0	1,56,166 0	14,071 0 0	3,234 0 0	25,529 0 0	4,683	5,402	10,085
Per mile of railway corresponding week of previous year ...	178	67 0 0	572 0	51 0 0	1 0 0	119 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	630,153	2,52,388 0 0	21,83,625 0	2,69,248 0 0	52,443 0 0	5,21,079 0 0	86,420	63,300	172,720

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 29TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 29TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	35,529	130	273	40,999	153	273	1,05,700	133	273	1,36,946	167	28,246	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 29th March 1890	...	...	10,781
Corresponding period of 1889	...	...	12,583
Decrease	...	...	1,802
Receipts per mile for week ending 29th March 1890	...	...	Rs. A. P. 211 6 3
Corresponding period of 1889	...	...	246 11 9
Decrease	...	...	35 5 6
Receipts from 1st January to 29th March 1890	...	...	1,06,448
Corresponding period of 1889	...	...	1,08,790
Decrease	...	...	2,342

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 5th April 1890	...	...	11,495
Corresponding period of 1889	...	...	9,487
Increase	...	...	2,008
Receipts per mile for week ending 5th April 1890	...	...	Rs. A. P. 225 6 3
Corresponding period of 1889	...	...	186 0 3
Increase	...	...	39 6 0
Receipts from 1st January to 5th April 1890	...	...	1,18,343
Corresponding period of 1889	...	...	1,18,277
Increase	...	...	66



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 7, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT.

Calcutta, the 17th April, 1890.

RESOLUTION.

THE rules sanctioned last year under Bengal Act I of 1889 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next:—

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholera hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depôt from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractors or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

Rules to be issued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

OUTTURN OF RABI AND SPECIAL CROPS IN BENGAL FOR THE YEAR 1889-90.

The following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPARTMENT,
AGRICULTURE;
CALCUTTA,
The 5th May, 1890.

P. NOLAN,
Secretary to the Government of Bengal.

Outturn of rabi and special crops in Bengal for the year 1889-90.

THE present season has been unfavourable to the *rabi* crops in some respects. The excessive rain which fell in the middle of November last destroyed the seed of *rabi* crops, which had been recently sown, and made it necessary in many places to have the lands sown over again. The injury from this cause extended over the whole of Orissa and Bengal Proper, except the districts of Dinagepore, Julpigoree, and Darjeeling in North Bengal. It is estimated that in Orissa and Bengal, taken together, fully one-third of the *rabi* crop was lost on account of the excessive rain in November. Deficiency of rain during the time of preparing and sowing *rabi* lands was, on the other hand, felt in several districts of the Patna Division and in Dinagepore, while the absence of rain in December, January, and February reduced the outturn more or less in all districts of the Patna, Bhagulpore, and Chota Nagpore Divisions. But for the latter cause, a full average crop could have been reaped in these divisions. Taking the whole of Bengal, the outturn of the *rabi* crops of the present season may be estimated at 13 annas.

2. Statement IV annexed to this note shows the estimated outturn of the more important special crops, such as sugarcane, tobacco, poppy, indigo, mulberry, jute, &c.

Sugarcane suffered more or less from deficiency of rain in all districts of the Burdwan Division, except Beerbhoom in Nuddea, Dinagepore and Julpigoree in Bhagulpore, and the Sonthal Pergunnahs, and probably also in Patna, Shahabad, Lohardugga, and Manbhoom. Injury from floods is reported from Dacca and parts of Nuddea, Jessore, and Moorshedabad. In the districts of the Orissa Division, and in Midnapore and parts of Hooghly, this crop was largely damaged by excessive rain in November. An average crop was reaped in the districts of the Patna Division, except in parts of Patna and Shahabad.

The tobacco crop was below the average in Rajshahye and Dinagepore, but is estimated to have yielded a 12 to 16 annas crop in the important tobacco-growing districts of Rungpore, Bogra, and Julpigoree. In the Mynagore tehsil of the Julpigoree district the crop is reported to have been very seriously damaged by hailstones.

3. Poppy was injured to some extent by deficiency of rain during the cold weather in Patna, Shahabad, Mozufferpore, and Bhagulpore. In Gya, Durbhunga, Sarun, Chumparun, and Monghyr it yielded a nearly full crop.

Mulberry did fairly well in Moorshedabad and Midnapore, but in Rajshahye, Bogra, Nuddea, and Beerbhoom the yield is estimated to be about three-fourths of an average crop.

M. FINUCANE,

Director of the Dept. of Land Records and Agriculture, Bengal.

The 15th April 1890.

STATEMENT III.—Estimated Outturn of Rubbee Crops for the year 1889-90.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Estimated outturn of previous year's rubbee crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
BURDWAN DIVISION.									
Burdwan	Sudder	1,242	993	53'26	Peas Kala Khesari Ginger Linseed Barley Onion Oats Potato Mustard Wheat Wheat Linseed Pulses Potatoes Pulses Oilseeds Wheat Gram Peas Khesari Barley Mustard Til Linseed Arhar Wheat	12 annas	11 annas	Pulses were injured by the last November rain.	The November rain affected all rubbee crops more or less. Potato was specially injured by it.
	Culina	432	350	52'5	Wheat Linseed Pulses Potatoes Pulses Oilseeds Wheat Gram Peas Khesari Barley Mustard Til Linseed Arhar Wheat	12 "	10 "	Ditto ditto.	
	Cutwa	333	265	16	Wheat Gram Peas Khesari Barley Mustard Til Linseed Arhar Wheat	14 "	10 "	Ditto ditto.	The rainfall in November was also excessive in Ranigunge, but the high and undulating nature of the ground prevented injury.
	Ranigunge	671	398	34'8	Wheat Gram Peas Khesari Barley Mustard Til Linseed Arhar Wheat	14 to 16 annas	14 to 16 annas		
	District Total	2,607	2,006	155'90					
Bankura	Sudder	1,021	670	11	Wheat Barley Pulses (mutar, musoor, &c.) Mustard Surgooja, &c. Cotton (karpas) Wheat Barley Pulses Mustard	9 annas 9 " 8 " 8 " 9 " 9 " 12 "	6 annas 6 " 6 " 5 " 10 " 16 "	Excessive rainfall in last November affected the rubbee crops of this season, whereas deficiency of rain was the cause of the poor outturn of the previous year's crops.	In Burdwan better crops are expected than in Bankura, although the rainfall was equally excessive in both districts. The comparatively low outturn may be partly attributed to want of rain during December, January and February.
	Bishenpore	700	330	30	Wheat Barley Pulses Mustard	12 "	10 "	The excessive rain of last November injured the rubbee crops then standing, viz., mustard and pulses; consequently the lands occupied by these crops were resown with wheat. The outturn per acre on area sown also was affected by the November rain.	
	District Total	2,021	1,020	86					
	Soory (Sudder)	1,108	777	18	Wheat Gram Mustard Pulses Linseed	12 annas 11 " 10 " 11 " 12 "	12 annas 12 " 14 " 10 " 11 "	Wheat was injured by rain which fell between 14th and 21st November.	The rubbee crops appear to have been also injured by the continued drought which followed the excessive rain.
	Rampore Hat	642	443	4	Wheat Gram Mustard Arhar Pulses	12 " 13 " 11 " 12 " 13 "	6 " 8 " 10 " 10 " 8 "	Wheat was injured by rain which fell between 14th and 21st November. Gram and mustard suffered from the November rain.	
	District Total	1,756	1,220	94					
Midnapore	Sudder	3,232	1,767	587	Moong Biri Linseed Gram Musoor Mustard Kala (moong, khesari, matar, &c.) Oilseeds (til, mustard, &c.) Pulses Mustard Biri Khesari Peas Linseed Surgooja Brinjal and other vegetables	9 annas	11 annas	The rubbee crops suffered a good deal from the excessive rain of November last.	
	Contai	581	710	47	Wheat Gram Mustard Pulses Linseed	8 "	8 "	Ditto ditto.	
	Ghattal	366	228	15	Wheat Gram Mustard Pulses Linseed	7 "	8 "	Ditto ditto.	
	Tumlook	620	465	58'125	Wheat Gram Mustard Pulses Linseed Surgooja Brinjal and other vegetables	10 "	16 "	Ditto ditto.	
	District Total	5,119	3,170	707'125					
Hooghly	Sudder	442	276'25	171	Masuri Pease Kala Potato Pulses Mustard Barley	10 annas 10 " 10 " 14 " 14 " 12 "	13 annas 13 " 13 " 15 " 14 " 14 "	The outturn was below the average owing to the scarcity of rainfall at the time of sowing.	The Collector's remark as to scarcity of rainfall at sowing time in the Sudder and Serampore sub-divisions is not borne out by the rainfall records. There appears to have been as good rainfall there as in Howrah and Jehanabad sub-divisions.
	Serampore	343	250	151	Potato Pulses Mustard Barley	14 " 14 " 12 "	15 " 14 " 14 "	The rainfall was not sufficient at first, and the heavy rain that fell afterwards affected the outturn of the rubbee crops more or less.	
	Jehanabad	438	293	20	Masuri Pease Kala Khesari Musoor Peas Mustard	14 " 14 " 14 " 14 " 12 " 12 " 15 "	12 " 12 " 12 " 12 " 15 " 15 " 15 "	The loss of 2 annas in the outturn of rubbee crops was due to a flood in November last.	
	Howrah	175	94'5	31	Masuri Pease Kala Khesari Musoor Peas Mustard	12 " 12 " 12 " 12 " 12 " 12 " 15 "	15 " 15 " 15 " 15 " 15 " 15 " 15 "	The rainfall in last November affected the outturn of the rubbee crops.	
	District Total	1,408	869	383					

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
BURDWAN DIVISION—concluded.									
Hughly— conoid.	Uluberiah ...	203	200	5 7 6 6 4 2 2 5	Musoor ... Khesari ... Watermelons, potatoes and utchaa, and arhar. Mustard ... Linseed ... Peas ... Til ... Boro ...	13 annas	16 annas	The rainfall in last November affected the outturn of the rubber crops.	
	District Total	1,899	1,082.75	243.50	.....	.....	.....

PRESIDENCY DIVISION.

24-Per- gunnahs.	Sudder and amalgamated part of Suburb, including late Baripore, Diamond Harbour.	1,070	717	10 10 5 8	Pulses, viz:— Kala ... Musoor ... Matar ... Gram ...	10 annas	12 annas.		No explanation of the deficient outturn is offered by the Collector. The excessive rainfall of November must have affected the outturn. In Baraset and Basirhat the outturn has probably been underestimated.
	Baraset ...	592	243	13 8 5	Khesari ... Peas ... Kala ... Gram ... Musoor ...	12 "	12 "		
	Basirhat ...	530	439	1 10 3 2	Gram ... Moong ... Peas ... Khesari ... Rape-seeds ...	8 "	10 "		
	Barrackpore ...	43	12	1,034	Peas ... Gram ... Moong ... Musoor ... Mustard ... Peas ...	13 " 10 " 13 " 13 " 10 " 4 "	12 "		
	Dum-Dum ...	56	31	1	Peas ...	4 "	Nil		
	District Total		1,895	90		
Khosha	Sudder ...	1,572.40	380	102	Oilseeds, viz., Til, linseed, mustard, &c.				The excessive rainfall at the latter part of November, which delayed the germination and retarded the growth of the rubber crops, and the deficient rainfall during the rest of the year, diminished the outturn.
	Satkhira ...	1,272.88	440	20 21 6 16 17 3 32 11½	Musoor ... Turmeric ... Chillies ... Kala ... Peas ... Khesari ... Arhar ... Moong ... Masuri ... Others ...	12 annas	8 annas		
	District Total	4,840.91	1,358	230.75		
Nuddes...	Sudder ...	701	454	150	Wheat, barley, oats, mustard, linseed, peas, gram, moong, kala, musoor, til.	9 annas	12 annas	Excessive flood and consequent deposit of silts did some good to some of the rubber crops, but others suffered from the heavy fall of rain in November last.	The extremely low outturn of rubber crops in the Choudanga and Ranaghat subdivisions cannot be wholly accounted for by the excessive rainfall of November. Arhar, moong, and kala, all of which were in full growth at the time of the November rain, could not possibly be injured to the extent of 14 annas by the excessive rain in Choudanga. The Collector's estimate cannot be accepted.
	Choudanga ...	437	273	218	Linseed ... Gram ... Wheat ... Musoor ... Arhar ... Mustard ... Moong ... Kala ... Peas ...	6 " 6 " 8 " 6 " 2 " 2 " 2 " 2 " 2 "	12 " 12 " 4 " 6 " 4 " 4 " 4 " 4 " 6 "	Much injury was done to the rubber crops by the rain which fell in November last.	
	Kushtha ...	555	418	140	Mustard, khesari, moong, masuri, musoor, wheat, barley, chenna, gram, linseed, til, peas.	10 "	8 "	Ditto ditto.	
	Meherpore ...	627	500	250	Kala ... Moong ... Arhar ... Wheat ... Barley ... Mustard ... Peas ... Musoor ... Rape-seed ... Til ... Gram ... Linseed ... Chillies ... Other crops ...	6 " 14 " 12 " 14 " 14 " 10 " 13 "	6 to 7 as.	Ditto ditto.	
	Ranaghat ...	427	256	192	Wheat ... Barley ... Peas ... Pulses ... Mustard ... Linseed ...	8 "	12 annas	Ditto ditto.	
	District Total	2,750	1,930	950		

* This includes Sunderbans 2,772.91 square miles appertaining to this district.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.

PRESIDENCY DIVISION—concluded.

Jessore	Sudder	889	475	20 23 9 14 15 12 3 14 10 105	Kalai Moong Arhar Peas Musoor Chillies Barley Gram Oilseeds Boro-paddy	10 annas 11 6 9 8 11 10 7 6 11	10 annas 12 9 10 10 13 14 12 8 10	Unseasonable rainfall in last November caused the decrease in the outturn of the rubber crops.	
	Bongong	649	389	24 47 24 15 6 6 7	Mustard Linseed Gram Arhar Moong Kalai Peas Musoor	12 14 14 4 14 14 16 14	12 12 10 6 10 12 16 12		
	Narail	487	3,652	91.3 17.1 5.7 5.7 39.9 22.9	Peas Khesari Moong Maskalai Mustard Rape-seed	7 7 7 6 7 7	14 14 14 13 14 14		
	Magorah	423	268	6 4 6 19 4 3	Rape-seed Mustard Linseed Peas Moong Maskalai	6 9 6 6 10 10	8 10 6 15 12 12		
	Jhenida	475	317	14 10 7 2 2 10 10 20	Kalai Moong Peas Barley Wheat Gram Musoor Chillies Boro-paddy	16 16 8 6 6 6 8 8 12	5 3 12 8 6 6 10 10		
	District Total	2,925	1,814.2	849.6					
	Lalbagh	372	223	39.6 15.8 19.8 15.8 17.9 7.9	Wheat Barley Gram Linseed Musoor Other minor crops	14 annas 14 annas	16 annas 16 annas		
	Jungipore	508	444	212	Gram Khesari Wheat Barley Linseed Mustard Kalai Other crops	12	18		
	Kandi	512	409	30	Wheat Linseed Barley Gram	12	16		
	Sudder	767	676	16 10 89 76 42 6 60 6 28 2 10	Barley Mustard Wheat Til Linseed Kalai Arhar Gram Peas Musoor Moong Other crops	14	12		
	District Total	2,159	1,652	688					

RAJSHAHYE DIVISION.

Dinagore.	Sudder	3,251	1,950	62	Mustard Potato Wheat Barley Pulse Oilseed Pepper Mustard	10 annas 10 annas	10 annas 10 annas	The short outturn is due to the deficient rainfall at sowing time.	
	Thakurgaon	867	650	92	Potato Brinjal Gram Wheat Peas Chillies	12	13		
	District Total	4,118	2,600	154					

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crop.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
RAJSHAHYE DIVISION—concluded.									
Rajshahye	Sudder	544	585	103	Wheat Pulses Mustard Linseed Cheena	12 annas	9 annas	The untimely rain in the latter part of November damaged the crops, especially in the Nattore sub-division.	In the Nowgong sub-division the rainfall in November was not excessive (78 inch). The deficient outturn in this sub-division may be partly attributed to scarcity of rainfall in October and the first half of November.
	Nattore	817	591	190	Wheat Pulses Mustard Linseed Khorachi	11 ..	13 ..		
	Nowgong	693	500	116.25	Wheat Pulses Ginger Linseed Mustard Turmeric Potato	11 ..	9 1/2 ..		
	District Total	2,304	1,676	409.25					
Bungpore	Bungpore	1,151	900	60	Potato Mustard Pulses Brinjal Chillies	14 annas	16 annas	A large part of the area in the Kurigram sub-division, on which the rubber crops were sown, was flooded, and hence the outturn is less than average.	
	Nelphamari	638	480	30	Wheat Pulses Ginger Potato	14 ..	12 ..		
	Kurigram	937	700	130	Pulses Mustard Wheat	11 ..	11 ..		
	Gaibanda	769	570	35	Wheat Mustard Pulses China and kaun	16 ..	16 ..		
	District Total	3,496	2,650	297					
Logra	Bogra	1,452	913	6 1/2	Musoor Khesari Linseed Mustard Wheat Til Gram Barley Mussalal Kharachi Potato	14 annas	13 annas	Unseasonable rain in the middle of November did harm to some of the crops. More harm was done to the crop by hailstone over a limited area in the north of the district in the third week of January.	
				8 1/2		14 ..	13 ..		
				5		12 ..	7 ..		
				23		16 ..	12 ..		
	District Total	1,452	913	80					
Pabna	Sudder	800	667	166	Pulses Oilseeds	9 annas	8 annas	The unseasonable rainfall in November last diminished the outturn of the rubber crops.	
				144		12 ..	8 ..		
				37	Wheat Barley Cheena	8 ..	7 ..		
				42		8 ..	7 ..		
	Serajgunge	567	718	186 1/2	Pulses Oilseeds Saun	14 ..	8 ..		
	District Total	1,847	1,385	713					
Darjeeling	The Terai	253	174	4	Mustard Onion Til Potato Pulses	15 annas	4 annas	Sufficiency of rainfall in the Terai caused better outturn this year.	
				1					
				1					
				4					
	Kurseong	185	12	.....	Urid Onion Potato Peas Mustard	.....	4 ..	No rubber crops were grown this year.	
				8					
				2 1/2	Wheat Barley Mustard Urid	12 ..	14 ..		
				3					
	District Total	1,164	275	30.50					
Jalpigore	Belkantpore pergunnah.	447	298	27	Mustard Wheat Pulses Kaun Potato Mustard	12 annas	12 annas	The rain of the 20th and 24th January last damaged mustard and pulses, but improved the prospects of other rubber crops.	The extremely low yield of the rubber crops, especially wheat and barley in Patgram, is not accounted for. The rainfall in January was not at all excessive or unusual and could not reduce the yield of wheat and barley to 2 annas. The Deputy Commissioner's figures are clearly wrong.
	Boda pergunnah.	493.72	295	1 1/2		10 ..	8 ..		
				1 1/2		8 ..	8 ..		
				26		12 ..	12 ..		
	Patgram pergunnah.	80.88	75	4	Wheat Pulses Kaun Potato Mustard	3 ..	4 ..		
				2		2 ..	4 ..		
				3		8 annas	10 ..		
				3		8 ..	12 ..		
	Mynagore	524	303	9	Mustard Potato Pulses	12 ..	12 ..		
				2		8 ..	12 ..		
				3		10 ..	11 ..		
	Fallacotta	742	320	50	Mustard	16 ..	16 ..		
	Alipore	517	200						
	Bholka	132	50	10	Wheat	12 ..	12 ..		
	District Total	2,831.00	1,441	141					

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
DACCA DIVISION.									
Dacca	Sudder	1,166	633	25	Mustard...	10 annas	13 annas	The excessive rainfall in November and January affected the growth of the rubber crops this year. In the previous year the deficient outturn was due to insufficient rain in December and January.	There was excessive rainfall in November throughout the district.
				25	Peas moong, and musoor.	9 "	11 "		
				10	Maskalai	9 "	11 "		
				10	Khesari	10 "	11 "		
				12	Chillies	10 "	11 "		
				5	Barley	13 "	14 "		
				5	Cheena	10 "	10 "		
				5	Kaun	10 "	10 "		
				5	Safflower	10 "	10 "		
	Naraingunge	641	350	7	Khesari	6 "	11 "		
Dacca				6	Masuri	6 "	11 "	Late rain in January damaged this year's crops, and last year's crops suffered from want of rain.	In January the rainfall in this sub-division was an excess of the normal (78 inch against the normal fall of 39 inch), but this does not account for the very low estimate.
				6	Peas	6 "	11 "		
				10	Mustard	8 "	10 "		
				3	Keora	6 "	10 "		
				2	Cheena	8 "	10 "		
				2	Kaun	8 "	10 "		
				6	Moong	8 "	10 "		
				5	Maskalai	8 "	10 "		
	Munabgunge	401	200	20	Mustard	10 "	10 "		
				20	Pulses	10 "	10 "		
Dacca				10	Cheena	12 "	12 "	The excessive rainfall in November affected the growth of the current year's rubber crops, and the deficiency of rain affected that of the last year's crops.	
				10	Kaun	12 "	12 "		
	Manickgunge	489	266	10	Mustard	8 "	16 "		
				25	Peas	1 "	6 "		
				19	Maskalai	9 "	10 "		
				20	Khesari	1 "	4 "		
	District Total	2,797	1,549	288					
Farred pure.	Sudder	800	602	15	Mustard			This year's rubber crops suffered still more than those of the previous year owing to (1) unusual rainfall in November last, and (2) heavy floods which delayed the cultivation and sowing.	
				35	Peas				
				5	Moong				
				25	Khesari	6 annas	8 annas		
				15	Kalai				
				15	Musoor				
				6	Gram				
				5	Barley				
	Goalundo	428	321	10 1/2	Mustard				
				10 1/2	Rapeseed				
Farred pure.				2 1/2	Linseed			The short outturn is due to the unusual rainfall in November last.	
				10 1/2	Musoor				
				24 1/2	Peas				
				10 1/2	Grain				
				10 1/2	Moong	4 "	6 "		
				10 1/2	Kalai				
				10 1/2	Khesari				
				10 1/2	Coriander seed				
				10 1/2	Chia				
				10 1/2	Wheat				
Farred pure.				10 1/2	Barley				
	Madaripoore	979	652	45	Mustard	12 "	12 "		
				45	Khesari	8 "	12 "		
				15	Miscellaneous rubber crops.	12 "	12 "		
	District Total	2,967	1,575	285 1/2					
Backergunge.	Barrisal	1,111	698	154	Khesari, musoor, mustard, moong, melon, chillies, peas.	10 annas	9 annas	Late rain in November last damaged the rubber crops to some extent in the district.	
	Perazepore	692	605	85	Boro dhan	14 "	14 "		
				6 1/2	Musoor	14 "	18 "		
	Patuakhali	1,026	231	2	Moong	16 "	14 "		
				3	Musoor	16 "	18 "		
	Bhola	615	309	7	Chillies	10 "	8 "		
				7	Khesari	10 "	8 "		
				1	Linseed	10 "	8 "		
	District Total	4,044	1,834	188					
Mymer-sinch.	Sudder	1,449	1,061	100	Mustard	9 annas	12 annas	Heavy rain after sowing and during harvest time affected the crops.	
				100	Kalai (pulses)	6 "	12 "		
				50	Miscellaneous	6 "	8 "		
	Kishoregunge	744	350	80	Mustard	8 "	12 "		
				60	Kalai (pulses)	10 "	12 "		
	Netrokona	389	694	20	Mustard	14 "	14 "		
				26	Pulses	15 "	15 "		
				11	Miscellaneous	13 "	13 "		
	Jamulpur	1,244	630	150	Mustard	9 "	10 "		
				150	Pulses	10 "	8 "		
Mymer-sinch.	Tangail	1,061	780	95	Mustard	15 "	15 "		
				95	Pulses	15 "	15 "		
	District Total	6,187	3,715	692					

* This excludes the area under tea cultivation.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
CHITTAGONG DIVISION.									
Upperah	Commillah or Sudder.	1,142	912	111	Mustard...	10 annas	11 annas	The outturn is short owing to excessive rain at the time of sowing.	
				36	Onions...	9 "	10 "		
				69	Chillies...	12 "	11 "		
				17	Coriander seed...	10 "	10 "		
				104	Khesari...	8 "	11 "		
				30	Moong...	8 "	10 "		
				61	Kalai...	9 "	10 "		
				24	Musoor...	9 "	10 "		
				25	Linseed...	10 "	10 "		
					Pulses...	16 "	16 "		
Brahmanberia		769	563.68	110.60	Mustard...	16 "	18 "	Pulses and mustard were damaged by excessive rain at the time of sowing.	
					Til...	16 "	14 "		
					Chillies...	17 "	16 "		
					Onions...	16 "	14 "		
					Garlic...	16 "	14 "		
					Turmeric...	14 "	12 "		
					Coriander seed...	14 "	12 "		
					Khesari...	12 "	12 "		
					Til...	15 "	15 "		
					Chillies...	16 "	16 "		
Chandpore ...		580	410	15	Moong...	15 "	14 "		
				10					
				25					
				10					
District Total		2,491	1,875.68	637.60					
Non-khally.	Sudder ...	1,298	1,000	8	Moong...	11 annas	10 annas	Untimely heavy rain affected the growth of the rubber crops.	The rainfall of November was below the normal in the Fenny sub-division. The Collector's explanation of the deficient yield of rubber crops in this sub-division is not therefore confirmed by the rainfall records.
				45	Khesari...	11 "	11 "		
				28	Kalai...	10 "	8 "		
				5	Moong...	8 "	10 "		
				5	Khesari...	8 "	8 "		
				9	Kalai...	8 "	8 "		
Chittagong.	Sudder ...	1,641	1,280	100				The outturn is generally good owing to timely rainfall this year.	
Cox's Bazar ...		1,030	815	29.3	Chillies...	4 annas	6 annas		
				24.44	Kalai...	16 "	6 "		
				26.83	Khesari...	15 "	6 "		
				22.40	Moong...	8 "	4 "		
				6.72	Mustard...	20 "	8 "		
				11.30	Sunn...	16 "	6 "		
				17.92	Sweet potato...	16 "	12 "		
				15.68	Gourds...	9 "	7 "		
				4.48	Melons...	12 "	6 "		
				5.6	Kachoo...	16 "	10 "		
District Total		2,567	1,462.68	289.51	Til...	20 "	6 "		
Chittagong Hill Tracts.	Sudder ...	3,583.5, of which 1,052.5 are reserved forests.	57.45 jum land, 94 ploughed land.	12.30	Cotton...	6 annas	8 annas	The cotton crop of this year was greatly affected by untimely rain. The heavy rain that fell just after the greater portion of the mustard crop was sown, caused the seed to rot, and in many places the crop had to be resown.	The outturn of til and mustard seems to be underestimated.
				2.05	Til...	4 "	4 "		
					Mustard...	4 "	4 "		
District Total		5,419	74.70	22.35					
PATNA DIVISION.									
Bankipore ...		617	457	22	Khesari...	14 annas	12 annas	The outturn is less than average, as there was very little rain at the time of sowing.	Besides scarcity of rain at sowing time, there was no rain in the district during December, January, and February. The want of rain in this period must have caused injury to the rubber crops.
				37	Musoor...				
				20	Gram...				
				20	Peas...				
				35	Wheat...				
				36	Barley...				
Barh ...		526	405	100	Gram...	14 "	12 "	This year a larger area was cultivated and sown with rubber crops owing to the timely rain during the ploughing and sowing time, and to the deposit of silt by floods. But the outturn has been reduced for want of sufficient rain during time of the crop maturing. Last year's outturn was affected by excessive rainfall in February 1889.	
				80	Khesari...				
				62	Barley...				
				35	Wheat...				
				30	Musoor...				
				8	Peas...				
Dinapore ...		143	118	9	Gram...	8 "	13 "	The outturn of this year's rubber crop was affected partly by the deficiency of rainfall during the months of October and December last, and partly by the injuries done by worms.	
				29	Barley...				
				13	Peas...				
				7	Wheat...				
				7	Musoor...				
				18	Oat...				
				3	Khesari...				
					Mustard...				
				3	Linseed...				
					Arhar...				
Behar ...		793	578	145	Wheat...	12 "	9 "	This year a larger area was under rubber cultivation, and the outturn would have been more had there been sufficient rain during the sowing time. Last year's crop was damaged by rain accompanied by hailstone that fell in February 1889.	
				45	Barley...				
				29	Gram...				
				27	Peas...				
				20	Musoor...				
				18	Arhar...				
				35	Khesari...				
				15	Linseed...				
				25	Mustard...				
District Total		2,079	1,555	1,007					

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
PATNA DIVISION—continued.									
Gya	Sudder	1,839	1,434	482	Khesari ... Wheat ... Gram ... Barley ... Peas ... Musoor ... Linseed and other cereals.	14 annas	10 annas	The increase in area under rubber crops in this sub-division was due to favourable rain at the sowing season. Wheat and gram suffered from want of hathiya rain and were also infested to a certain extent by an insect called kaika, which cut off the top of the blades when they had attained a span's height.	
	Nowada	1,620	765	122	Wheat ... Barley ... Gram ... Peas ... Musoor ... Khesari ... Linseed ... Mustard ...	14 "	11 "	There being no rain at the time of sowing, the outturn of rubber crops is estimated to be 2 annas below the average.	
	Jehanabad	607	603	35	Khesari ... Wheat ... Gram ... Barley ... Peas ... Musoor ...	16 "	8 "	The good harvest is due to favourable rainfall both at the sowing and ripening time.	
	Aurangabad	1,246	747	56 42 168 28 154	Wheat ... Barley ... Gram ... Linseed ... Musoor ... and other crops.	16 "	14 "	In Aurangabad there being sufficient moisture in the lands, the outturn of rubber crops is estimated to be 16 annas.	
	District Total	4,712	3,449	1,282					
Shahabad	Arrah	915	778	40 55 45 10 19 15 40 2 20 20 20 15	Gram ... Peas ... Barley ... Onia ... Linseed ... Mustard ... Wheat ... Cotton ... Musoor ... Khesari ... Arhar ... Safflower ...	14 annas	12 annas	The crops suffered to some extent from failure of hathiya and Christmas rains.	The Collector's remark applies to the whole district.
	Buxar	656	563	251	Wheat ... Barley ... Gram ... Peas ... Onia ... Arhar ... Khesari ... Musoor ... Mustard ... Linseed ... Castor seed ...	14 annas	12 annas		
	Sasaram	1,403	809	99 29 68 51 35 20 35 7	Wheat ... Peas ... Gram ... Barley ... Arhar ... Khesari ... Musoor ... Linseed ...	12 "	10 "		
	Shahbush	1,301	976	100 50 100 50	Wheat ... Gram ... Peas ... Barley ...	12 "	6 "		
	District Total	4,285	3,126	1,186					
Dumra	Sudder	1,222	929	51 46 33 85 40 25	Barley ... Wheat ... Gram ... Arhar ... Mustard ... Linseed ...	12 annas	8 to 12 annas, 8 to 12 annas, 8 annas, 14 " 12 to 14 annas, 12 to 14 annas.	The outturn would have been excellent had there not been want of rain in November and December.	In the Madhubani sub-division, there was no rain in October, November, and December. A 16-anna crop is therefore scarcely probable.
	Tajpur	764	49	124 28 12 26 10 18 7 2 6	Wheat ... Barley ... Peas ... Musoor ... Arhar ... Linseed ... Mustard ... Gram ... Cheena ... Oak ...	12 "	13 annas	The crops on the banks of the Gunduck and the Ganges were good owing to the silt deposited by floods. Elsewhere the outturn was diminished by want of rain in November and December last.	
	Madhubani	1,349	1,109	40 45 26 90 23 25	Wheat ... Barley ... Mustard ... Arhar ... Gram ... Linseed ...	16 "	5 " 5 " 8 " 8 " 5 " 3 "	Last year the outturn was poor owing to the insufficiency of rainfall.	
	District Total	3,335	2,078	1,061					

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
PATNA DIVISION—concluded.									
Muzaffer- pore	Mozafferpore	1,218	960	150 150 79 150 59 10	Barley ... Wheat ... Gram ... Peas, khesari and musoor. Oilseeds ... Others ...	14 annas	12 annas	Rainfall at the end of November and January last had been very beneficial to this season's crops.	In Mozafferpore there was no rain from the 3rd week of September till the middle of November; and again from then till the 24th of January.
	Hajipore	771	529'6	25 20 10 20 9 10 107	Barley ... Wheat ... Gram ... Arhar ... Mustard ... Kerai ... Others ...	10 "	12 "	Absence of rain during <i>hatee nichhatur</i> , i.e., October, did not allow the whole of the normal area to be sown under rubber this year; and want of rain during the whole of rubber season affected the outturn.	
	Sitamarhi	1,014	770'64	50 50 49 20 100 40 50	Barley and peas Wheat ... Gram & mustard Arhar ... Khesari ... Linseed & musuri Others ...	14 "	10 "	Owing to heavy rains of the year and the floods which are so beneficial to the rubber crops in general, the outturn was expected to be a bumper one, but the deficiency of the winter rains reduced it to 14 annas.	
	District Total		3,003	2,260'24	1,131				
Saran	Sudder	998	850	35 35 47 25 15 10 12 10 10	Barley ... Wheat ... Gram ... Arhar ... Peas ... Khesari ... Musoor ... Linseed ... Oats ... Other crops ...	16 annas	12 annas	The weather was quite favourable from the beginning. Had there been a little rain in December the outturn would have been a bumper one. The increase in the estimated area under rubber was due to the fact that in many places where the rice and bhadoi crops were destroyed by inundation, the land occupied by them was quickly ploughed again on the waters receding and rubber crops were sown.	From the rainfall records the weather does not appear to have been wholly favourable to rubber crops. There was deficient rainfall at sowing time, the entire months of October and the first half of November having been rainless. Again the three following months of December, January, and February were perfectly rainless. A 16-anna harvest seems therefore to be an over-estimate.
	Sewan	853	603	115 70 20 25 10 23 7 5	Barley ... Wheat ... Arhar ... Gram ... Musoor ... Peas ... Khesari ... Oats ...	16 "	*6 "		
	Gopalgunge	771	586'20	40 70 16 18 10 10 12 16 9	Wheat ... Barley ... Peas ... Gram ... Musoor ... Khesari ... Arhar ... Mustard ... Turi ... Potatoes ...	13 "	12 "		
	District Total		2,622	2,129'50	501				
Chumpra	Sudder	1,518	1,022	136 45 160	Wheat ... Barley ... Mustard ... Linseed and other oilseeds. Oat, gram, peas, musoor, khesari, arhar ...	16 annas 14 " 14 "	nnas 8 " 7 "	The better outturn in this year as compared with last year is due to sufficient moisture being left in the soil by the rain of the middle of November last. The rain of the 23rd and 24th January 1890 also materially improved the prospects of the crops.	
	Bettiah	2,013	1,200	200 75 225 50	Wheat ... Linseed ... Mustard ... Barley ...	14 " 14 " 14 " 12 "	12 "		
	District Total		3,531	2,222	891				
BHAGULPORE DIVISION.									
Monghyr	Sudder	1,559	1,091	482 500	Wheat ... Barley ... Gram ... Peas ... Khesari ... Mustard ... Linseed ... Arhar ...	12 annas	12 to 14 annas.	The rubber crops, especially on high lands, were affected to a considerable extent by want of rain in December and January, and hence the diminished outturn.	In the Sudder sub-division, there was no rain in October, November, December or January, and the greater part of February. In the Jamui and Begusarai sub-divisions, there was some rain in October and November, but none during the rest of the season. The outturn seems to be over-estimated.
	Begusarai	769	577	41 480	Wheat ... Barley ... Gram ... Arhar ... Musoor ... Khesari ... Mustard ... Linseed ... Chillies ... Oats ...	13 to 15 annas.	12 to 14 annas.	The entire absence of rain in December and January reduced the outturn.	
	Jamui	1,593	1,062	150 487	Wheat ... Peas ... Kulthi ... Musoor ... Khesari ... Barley ... Gram ... Arhar ...	16 annas.	12 annas.		
	District Total		3,921	2,730	2,149				

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.

BHAGULPORE DIVISION.—concluded.

Bhagulpore.	Sudder ...	936	655	374	Wheat ... 10 annas Barley ... 10 " Linseed ... 8 " Rape-seed ... 8 " Mustard ... 10 " Oats ... 10 " Gram ... 12 " Other pulses ... 10 "	8 annas	The oilseeds did not get the rain of Kartic on which they are so dependent. The wheat suffered from want of rain in January.	
	Banka... ..	1,185	888	106	Barley ... Wheat ... Linseed ... 10 " Gram ... Arhar ...	8 to 10 annas	The poor outturn is due to deficiency of rain in October and November. There was no rain afterwards.	The distribution of rainfall was similar in Bhagulpore and Monghyr. The lower outturn of rabi crops in the latter may be due to the lands of this district being higher than in Monghyr and the districts of the Patna division.
	Mudehpurah...	872	542	130	Wheat ... Mustard... Linseed ... Arhar ...	7 annas 14 " 7 " 9 "		
	Soopul... ..	1,275	956	239	Mustard... Wheat ... Linseed ... Arhar ... Barley ...	8 to 10 annas 6 to 8 annas	Want of rain in October and November injured the oilseeds.	
	District Total	4,268	3,041	854				
Purneah.	Sudder ...	2,572	1,929	371	Wheat ... 14 annas Gram ... 16 " Mustard... 16 " Arhar ... 12 " Kalmi ... 16 " Khesari ... 16 " Musoor ... 16 " Wheat ... 10 " Oilseeds ... 16 " Gram ... 12 " Linseed ... 12 " Musoor, &c. ... 12 " Other crops such as— Khesari ... 15 " Musoor, &c. ... 15 " Kalmi ... 15 " Gram ... 15 " Peas ... 14 " Moong ... 16 " Arhar ... 15 " Wheat ... 15 " Mustard ... 12 " Linseed ... 16 "	12 annas	Rainfall was not sufficient for wheat.	Want of rain was felt in October and November at sowing time.
	Arrareah ...	1,044	700	3			Wheat suffered much from want of rain. The outturn of oilseeds and masuri was very good owing to the deposit of silt by floods.	
	Kishengunge...	1,340	1,005	120			The rainfall in January last improved the prospects of the rubber crops. Mustard suffered very much from want of water at a very early stage.	
	District Total	4,956	3,634	552				
	Whole district	1,902	1,268	510	Wheat ... 12 annas Barley ... 12 " Gram ... 16 " Kalmi ... 16 " Musoor ... 16 " Oilseeds ... 16 "	12 annas	The crops suffered a little from want of timely rainfall.	
Southal Pergunnah.	Dumka ...	1,429	708	50	Mustard ... Surguja ... Arhar ... Kulthi ...	13 annas	12 annas	The want of rain referred to by the Deputy Commissioner was felt in December, January, and February equally in all sub-divisions. It is not therefore clear why the crops should have well in Jamtara, Deoghur, and Deomka, and so badly in Godda.
	Deoghur ...	954	257	321	Gram ... Wheat ... Linseed ... Barley ...	16 "	8 "	
	Godda ...	956	676	220	Wheat ... Barley ... Linseed &c. ...	6 "	8 "	
	Rajmahal ...	740	555	116	Mustard... Wheat ... Gram, &c. ...	12 "	8 "	
	Jamtara ...	690	195	20	Arhar ... Kulthi ... Rape-seed, &c. ...	16 "	10 "	
Pakour	Pakour ...	683	511	102	Wheat ... Barley ... Gram ... Pulses ... Oilseeds ...	11 "	12 "	
	District Total	5,468	2,902	772				

ORISSA DIVISION.

Cuttack.	Cuttack ...	289	533	25	Biri ... 6 annas Moong ... 6 " Kulthi ... 8 " Arhar ... 6 " Gram ... 6 " Burguri ... 6 " Peas ... 7 " Mustard... 4 "	7 annas	The excessive rainfall in last November affected this year's rubber crops very much.	It is not clear why kulthi and moong should yield 14 and 16 annas respectively, while kalmi and mustard so little as 4 annas. Kulthi is as liable to injury by excess of rain in November as mustard or kalmi.
	Banki ...	116	60	12	Kulthi ... 14 " Moong ... 16 " Kalmi ... 4 " Mustard... 4 "	9 "	The heavy rains in last November damaged kalmi and mustard.	

1	2	3	4	5	6	7	8	9	10	
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.	
DACCA DIVISION—concluded.										
Cuttack	Kendraparah ...	1,424	891	54 2'4 14'1 1'6 34 1'8	Biri ... Moong ... Kulthi ... Arhar ... Burguri ... Gram ...	6 annas	14 annas	Untimely heavy rain, attended by high winds, just when some of the crops were flowering and others germinating, damaged this year's rubber crops.		
	Jajpore ...	1,104	590	17 8 29 5	Biri ... Moong ... Kulthi ... Arhar ... Moong ... Kulthi ... Gram ... Caster-seeds ... Mustard ... Rasi ...	8 " 6 " 8 " 8 " 6 " 16 " 6 to 8 6 to 8 10 to 12 10 to 12	20 " 16 " 20 " 12 " 12 " 16 " 6 to 8 6 to 8 10 to 12 10 to 12			
	Angul ...	.....	.....	.....	.....	.....	.....			.....
	District Total	3,633	1,894	232'74	.....	.....	.....			.....
Balasore	Balasore ...	1,138	670	24 34 24 3	Moong ... Biri ... Arhar ... Mustard ... Other sorts of rubber.	11½ annas	12 annas	Owing to the constant and heavy rain in the latter part of November last the outturn of the rubber crops fell short this year.		
	Bhuddruck ...	908	720	1'823	Arhar ... Moong ... Mustard ... Biri ... Khesari ... Burguri ... Gram ... Kulthi ... Til ...	12 "	16 "			
	District Total	2,066	1,390	15'823	.....	.....	.....			.....
	Sudder ...	1,530	720'380	18 23 10'5 2 1'75 7 2 2 1 1	Moong ... Kulthi ... Biri ... Gram ... Mustard ... Arhar ... Peshi ... Burguri ... Cheena ... Rasi ...	6 annas 7 " 5 " 5 " 4 " 5 " 6 " 7 " 8 " 8 "	8 annas 9 " 6 " 8 " 7 " 8 " 8 " 8 " 8 " 8 "			
Purba	Khorda ...	200'292	414'400	58'47	Moong ... Kulthi ... Biri ... Arhar ... Gram ... Burguri ... Caster ... Mustard ... Til ...	10 " 12 " 6 " 8 " 2 " 2 " 10 " 2 " 2 "	8 " 8 " 8 " 8 " 8 " 8 " 2 " 2 " 2 "	Arhar, gram and biri suffered from the excessive rain of November last, which also interfered with the sowings of the other rubber crops. Again there was want of rain after the sowing was over. These all combined diminished the outturn.	In Khurda, the injury caused by the November rain was aggravated by the drought which followed it.	
	District Total	2,530'292	1,134'940	126'72	.....	.....	.....			.....
CHOTA NAGPORE DIVISION.										
Hazaribagh.	Head-quarters	4,575	2,395	379	Wheat ... Barley ... Gram ... Arhar ... Mustard ... Til ... Khesari ... Surguja ... Peas ... Musoor ...	15 annas	6 annas	Unlike the last year, the rainfall this year was favourable from the sowing time till the plants attained the state of maturity, when rain held off altogether. This accounts for the increase in the estimated outturn as compared with that of the last year.	The rainfall was thoroughly favourable up to the third week of November, since then no rain fell during the remainder of the season. Under the circumstances a 15-anna crop cannot be looked for. In Lohardugga, where the rainfall was distributed in the same way as in Hazaribagh, the crops are estimated at 6 annas only.	
	Giridih ...	3,446	1,280	255	Wheat ... Barley ... Gram ... Linseed ... Mustard ... Til ... Surguja ... Arhar ... Khesari ...	15½ "	7½ "			
	District Total	7,021	3,675	634	.....	.....	.....			.....
Lohardugga.	Head-quarters	7,804	1,673	Not known	Gram ... Surguja ... Barley ... Mustard ... Til ... Wheat ... Musoor ... Khesari ... Arhar ... Kulthi ... Bodi ... Gram ... Wheat ... Barley ... Arhar ... Mustard ...	11 annas. 13 " 10 " 11 " 10 " 11 " 8½ " 15 " 12 " 7 " 10 " 8 " 8 " 8 " 8 " 8 " 10 "	7 annas. 9 " 6 " 7 " 6 " 10 " 7 " 4½ " 10 " 6 " 8 " 5 " 5 " 4 " 4 " 4 " 5 "	If there had been rain at the beginning of January, the outturn of rubber crops would have been better. As there was a good fall of rain at the beginning of sowing season, i.e., in September and October last, the area sown this year with rubber crops was larger than that of the previous year.	The extremely low yield of arhar in Palamow is not intelligible. This crop could not have been much affected by drought in December and January.	
	Palamow ...	4,241	2,130	850	.....	.....	.....			.....
	District Total	12,015	3,803	850	.....	.....	.....			.....

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
CHOTA NAGPORE DIVISION—concluded.									
Man- bhoom.	Gobindpur ...	803	289	4	Gram	8 annas	10 annas	The outturn of wheat, barley, and gram appears to have been reduced by drought in December, January, and February. The distribution of rain having been alike in both the sub-divisions, it is not clear why wheat and barley should yield 12 annas in one sub-division and 8 annas in the other; or why biri should yield 20 annas in one and only 4 annas in the other.
				12	Barley	8 "	10 "		
				12	Wheat	8 "	10 "		
				20	Biri	4 "	19 "		
				22	Arhar	16 "	12 "		
Sing- bhoom.	Head-quarters	3,344	1,203	30	Gram	12 "	8 "		
				80	Barley	12 "	10 "		
				100	Wheat	12 "	10 "		
				100	Biri	20 "	18 "		
				90	Arhar	16 "	12 "		
	District Total	4,147	1,492	690		
Sing- bhoom.	Kolhan Pergunnab.	1,946	973	63	Til	14 annas	8 annas	The outturn was affected to some extent by deficiency of rainfall.	
					Mustard				
					Moong				
					Khesari				
					Gram				
Sing- bhoom.	Porahat ...	660	347	39	Biri	12 "	8 "		
					Kado				
					Arhar				
					Kulthi				
					Surguja				
Sing- bhoom.	Dhalbhoom ...	1,147	573	2	Peas	14 "	4 "	Ditto ditto.	
					Musoor				
					Moong				
					Til				
					Surguja				
	District Total	3,753	1,793	117		
GRAND TOTAL FOR THE WHOLE OF BENGALE ...		153,321-712	87,843-00	24,633-155*		

* This excludes area under rubber crops in Angul.

STATEMENT IV.—Showing estimated outturn of important special crops, such as Jute, Tobacco, Ganyā, Sugarcane, Opium, Mulberry.

1	2	3	4	5	6	7	8	9	10			
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.			
BURDWAN DIVISION.												
Burdwan...	Sudder ...	1,242	993	Sugarcane ...	175	10	10	Want of rain at the planting time affected the outturn of sugarcane.				
	Culina ...	432	320	Tobacco ...	2	10	8					
				Jute ...	10							
				Sugarcane ...	5							
				Indigo ...	5							
Burdwan...	Culwa ...	352	265	Sugarcane ...	15	10	14	In Bishenpore sub-division the weather was more favourable this year than last year.				
				Turneric ...	1	9	12					
				Jute and sunn ...	25	10	14					
				Tobacco ...	25	12	14					
				Sugarcane ...	269	15	15					
Burdwan...	Raneegunge...	671	328	Sugarcane ...	269	15	15					
	District Total	2,697	2,006	.....	5779	.....	.....			
	Bankura	Sudder ...	1,921	870	Sugarcane ...	1	11			11		
					Jute and sunn ...	375	9			10		
					Tobacco ...	50	10			12		
				Mulberry ...	125	12	12					
				Sugarcane ...	3	16	12					
Bankura	Bishenpore ...	700	550	Sugarcane ...	3	16	12	In Bishenpore sub-division the weather was more favourable this year than last year.				
	District Total	2,621	1,020	.....	5	.....	.....			
	Burdwan...	Sooree (Sudder)	1,106	777	Sugarcane ...	31	16			14		
		Rampore Haut	644	458	Sugarcane ...	18	16			10		
					Mulberry ...	12	12			12		
				Jute ...	2	8	8					
District Total		1,756	1,235	.....	63	.....	.....			
Midnapore	Sudder ...	3,252	1,767	Mulberry ...	1475	11	12	These crops suffered from untimely heavy rainfall.	There was untimely heavy rainfall in November, but this could not affect jute; or mulberry and sugarcane to any great extent unless the fields were flooded.			
	Contai ...	881	710	Tobacco ...								
				Sugarcane ...								
				Jute ...	31	11	12					
				Mulberry ...								
Midnapore	Ghatal ...	306	223	Pineapple ...	10	8	10	Insufficient rain at the time of planting did much damage to these crops.				
				Sugarcane ...	10	10	12					
				Mulberry ...								
				Sugarcane ...								
				Mulberry ...								
Midnapore	Tumlook ...	620	465	Jute ...	29062	16	16					
				Tobacco ...								
	District Total	5,119	3,179	.....	297562	.....	.....			
	Hooghly	Sudder ...	442	27625	Sugarcane ...	5	12			14	There was no rainfall at the time of sowing, and hence the deficient outturn. Sugarcane and jute suffered from drought at ploughing time and from too much rain afterwards. Sugarcane was destroyed by flood in the previous year.	
		Serampore ...	343	250	Tobacco ...	23	8					
				Sugarcane ...	1425							
				Jute ...	1530	10 to 12	10 to 12					
				Tobacco ...	125							
Hooghly				Melons, &c. ...	250							
	Jehanabad ...	435	263	Sugarcane ...	35	16	3					
				Tobacco ...	9	16	16					
	Howrah ...	173	945	Jute ...	14	13	13					
				Sugarcane ...	10							
Hooghly	Colooberial ...	303	200	Jute ...	2							
				Tobacco ...	1							
				Sugarcane ...	7	14	8					
				Mulberry ...	1							
	District Total	1,699	1,08175	.....	12475	.....	.....			
PRESIDENCY DIVISION.												
24-Pergun-	Sudder and amalgamated part of suburbs including late Barripore sub-division.	1,070	717	Jute ...	550	13						
				Tobacco ...	2	10	10					
				Sugarcane ...	4	12	12					
	Diamond Harbour.	513	453	Jute ...	875	13	16					
	Baraset ...	392	243	Tobacco ...	604	8	16					
24-Pergun-	Basirhat ...	530	430	Jute ...	12	14						
				Tobacco ...	2	10	12					
				Sugarcane ...	6	12	16					
				Jute ...	30							
				Tobacco ...	4	8	14					
24-Pergun-	Barrackpore...	49	12	Sugarcane ...	5							
				Jute ...	3							
				Sugarcane ...	3							
				Sugarcane ...	35	12	12					
				Jute ...	15							
24-Pergun-	Dum-Dum ...	56	31	Jute ...	3							
	District Total	2,603	1,995	.....	121409	.....	.....			
Khoolna ...	Sudder ...	1,67240	359	Jute ...	35							
	Satkhira ...	1,27388	449	Tobacco ...	8	14	12					
	Bagirhat ...	1,60863	520	Sugarcane ...	24							
	Area of boundary khals and rivers of the Sunderbans in this district.	496	.....	Miscellaneous	1225						
	District Total	4,94991*	1,389	.....	7925	.....	.....			

* This includes Sunderbans 2,77291 square miles appertaining to this district.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.

PRESIDENCY DIVISION—concluded.

Nudda ...	Sudder ...	701	484	Jute ...	120	4	8	Floods damaged jute and sugarcane. Want of rainfall in time affected the outturn. Floods damaged jute and sugarcane. A good deal of damage was done to the crops by the heavy rainfall in last November.	If jute and sugarcane were injured by floods to the extent of 12 annas, they must have injured winter paddy as well. But in the return on winter paddy was not so reported.		
	Choudanga ...	437	272	Sugarcane ...	16	4	12				
	Kustea ...	528	418	Mulberry ...	25	8	8				
			Jute ...	9	8	8					
			Sugarcane ...	104	10	12					
			Turmeric ...	6	15						
	Meherpore ...	627	500	Tobacco ...	7	16					
			Jute ...	54	7	16					
			Tobacco ...	6	16						
			Sugarcane ...	10	14						
Jessore ...	Ranaghat ...	427	255	Mulberry ...	8	7 to 8	8	The decrease in the outturn is due to the sudden rise of Bheel water, which drowned the plants over a large area. The cultivation of sugarcane in this subdivision is very insignificant.			
			Turmeric ...	8	8	12					
			Indigo ...	45	4	12					
			Jute ...	8	8	12					
			Sugarcane ...	8	8	12					
			Tobacco ...	8	8	12					
	District Total	2,750	1,930		351						
	Sudder ...	589	475	Jute ...	9	16	16				
			Tobacco ...	11	16	14					
	Bongong ...	649	389	Sugarcane ...	5	16	14				
		Jute ...	13	16	12						
		Tobacco ...	25	16	16						
		Sugarcane ...	12	9	8						
Narail ...	487	365 2	Jute ...	23	12	17					
Magoorah ...	425	298	Jute ...	6	10	10					
			Sugarcane ...	25	10	10					
Movershedabad.	Jhenidah ...	475	317	Jute ...	15	10	9	Floods did damage to a certain extent to jute and sugarcane.			
			Sugarcane ...	10	8	16					
			Tobacco ...	2	10	16					
	District Total	2,935	1,814 2		151 25						
	Sudder ...	767	276	Mulberry ...	24	16					
			Jute ...	4	10	10					
			Sugarcane ...	4							
			Tobacco ...	2	18						
	Lalbag ...	372	223	Indigo ...	14						
			Jute ...	9 2							
		Tobacco ...	3 32	10	12						
		Sugarcane ...	16 32								
		Mulberry ...	14 32								
Movershedabad.	Jungipore ...	508	444	Other crops ...	7 43						
			Tobacco ...								
			Jute ...								
			Sugarcane ...	21	16	16					
			Indigo ...								
			Mulberry ...								
	Kandi ...	512	409	Sugarcane ...	29	14	12				
			Mulberry ...								
	District Total	2,159	1,652		142 19						

RAJSHAHYE DIVISION.

Dinapore	Sudder	3,251	1,920	Jute	167	6	16	Deficiency of rainfall in proper time affected the outturn of jute, tobacco and sugarcane.
				Tobacco		9	9	
				Sugarcane		12	10	
				Ganja		6 1	8	
	Thakurgaon	867	650	Jute	293	6	14	The diminished outturn is due to want of timely rain.
			Tobacco		6			
			Sugarcane		8			
	District Total	4,118	2,600		460			
Rajshahye	Sudder	944	585	Jute	10	13	12	
				Tobacco		13	12	
				Sugarcane		13	12	
				Mulberry				
	Natore	817	591	Jute	38	10	13	
				Tobacco				
				Sugarcane				
				Jute	160	10	10	
				Tobacco		10	10	
				Ganja		13	10	
	Nowgong	603	560	Sugarcane				
	District Total	2,364	1,676		248			
Rangpore	Rangpore	1,151	900	Jute	175		16	In Kurigram sub-division a large part of the area on which the rubber crops were sown was flooded.
				Tobacco	80	15		
				Sugarcane	80	16		
				Indigo	15			
				Wheat	10	15		
	Nelphamari	638	450	Jute	120		10	
				Tobacco	60	14	12	
				Sugarcane	7	14	12	
				Jute	275		14	
				Tobacco	175	14	14	
	Kurigram	937	700	Sugarcane	110	12	12	
			Jute	160		14		
			Sugarcane					
	Gaibanda	769	570	Jute	40	16	14	
	District Total	3,458	2,650		1,947			

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
RAJSHAHY DIVISION—concluded.									
Bogra	Bogra	1,452	913	Jute Tobacco Mulberry Ganja Sugarcane	100 7 7 2 17	14 12 10 15	8 8 12 15		
	District Total	1,452	913		140				
Pabna	Sudder	890	607	Tobacco Sugarcane	15 119	12 8	12 12	The heavy and incessant rains in November last prevented the usual cultivation of tobacco, which is grown to a small extent in lands adjoining to homesteads.	
	Serajgunge	957	718	Tobacco	14	10	8	The sugarcane also suffered from the floods in the preceding years, and yielded but little produce: some lands were silted up with sand and became unfit for the sugarcane cultivation.	
	District Total	1,847	1,325		148				
Darjeeling	Silligoree	253	174	Jute Tobacco Sugarcane	16 2 4	15	8	There was sufficient rain for the rubber crops.	
	Sudder including Kalimpong.	726	80	Jute Tobacco			8		
	Kurseong	185	12	Sugarcane				No rubber crops grew here this year.	
	District Total	1,164	275*		22				
Duipigoree	Balkantapore pergunnah.	447	298	Jute Tobacco Sugarcane	98 35 27			Tobacco suffered from hailstorm, and sugarcane from want of sufficient rain.	The hailstorm was not general all over the Mynagore tahsil. The extremely low yields of tobacco and sugarcane are not intelligible.
	Boda	402.72	295	Jute Tobacco Sugarcane Ginger	40 19 12 5	10 10 11 7	9 10 10 5		
	Patgram	36.88	75	Jute Tobacco Sugarcane		11 15 7	8 14 6		
	Mynagore	524	263	Jute Tobacco Sugarcane	18.7 1.5 3	12 4 3	12 8 15		
	Pallacotta	742	350	Tobacco	20	14	15		
	Alipore	517	200	Jute	17	16	12		
	Bholka	133	50						
	District Total	2,851.00	1,441		319.5				
DACCA DIVISION.									
Dacca	Sudder	1,266	633	Jute Tobacco Sugarcane	135 10 30	14 19 15	14 10 11	Sugarcane was damaged by unusual rise of water.	
	Narsingunge	641	350	Sugarcane Tobacco	20 20	12 8	14 8		
	Munshigunge	401	200	Jute Sugarcane	40 10	10 12	8 12		
	Maulikgunge	480	265	Jute	20	12	12	Want of rain at the time of sowing affected the outturn.	
	District Total	2,787	1,549		347				
Farrakapore	Sudder	820	602	Jute Tobacco Sugarcane	70 25 75				
	Madaripore	979	652	Jute Sugarcane Runn	10 2.50 50	8 8 12	12 15 8		
	Goalundo	428	321	Jute Sugarcane	81 20	12 5	8 5		
	District Total	2,226	1,575		185				
Backergunge.	Harisal	1,111	608	Sugarcane Jute and tobacco.	69	12	13		
	Perozepur	692	605	Sugarcane	12.5	16	12		
	Patuakhali	1,020†	231	Sugarcane	1	16	10		
	Bhola	615	300	Sugarcane Jute	1.75	14	15		
	District Total	4,044	1,834		84.25				
Chittagong.	Sudder	1,849	1,061	Jute Do. Do. Do. Do.	275 95 25 400 292			Tobacco and sugarcane are cultivated for home consumption only.	
	Kishoregunge	744	350						
	Netrokona	1,350	604						
	Jamulpore	1,644	830						
	Tangail	1,061	780						
	District Total	6,227	3,715		1,087				

* This excludes the area under tea cultivation.

† This includes the Sunderban area which was not included in previous statements.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.

CHITTAGONG DIVISION.

Tipperah...	Cornillah or Sudder.	1,142	912	Jute ...	226	15	13		
				Sugarcane ...	71	10	12		
	Brahmanberia.	709	253'68	Jute ...	294	12	16		
				Sugarcane ...	155	13	10		
Chandpore ...		550	410	Tobacco ...	20	16	16		
				Jute ...	75	13	13		
				Sugarcane ...					
				Betelnut ...					
District Total		2,401	1,875'68		851				
Noakholy	Sudder ...	1,298	1,000	Jute ...	11	13			
				Sugarcane ...	10	13			
	Fenny ...	343	280	Sugarcane ...	25	6	8		
				Jute ...	4	8			
District Total		1,641	1,280		50				
Chittagong	Sudder ...	1,630	815	Tobacco ...	13'44	8	6		
				Sugarcane ...	20'16	8	6		
	Cox's Bazar ...	937	647'68	Tobacco ...	27'75	13	10		
				Sugarcane ...	48'02				
District Total		2,567	1,462'68		109'37				
Chittagong Hill Tracts.	Sudder ...	3,583'5 of which 1,032'5 are reserved forests.	37'45 jum land 9'50 ploughed.	Tobacco ...	75	10	8		The very heavy rain that fell in November last caused a large number of young canes to fall and this materially affected the outturn of sugarcane.
				Sugarcane ...		10	12		
	Sungoo ...	1,835'5 of which 362'3 are reserved forests.	13'75 jum land 9 ploughed.	Tobacco ...		10	8		
District Total		5,419	74'70		75				

PATNA DIVISION.

Patna ...	Sudder ...	617	457	Poppy ...	22	14	10		
				Sugarcane ...			15		
	Barh ...	526	405	Jute ...	5'05	12	8		
				Sugarcane ...		8	4		
Dinapore ...		143	118	Poppy ...	25	12	10		
				Jute ...	75	12	15		
				Sugarcane ...			12		
				Poppy ...	3		2		
Behar ...		793	575	Sugarcane ...					
				Tobacco ...					
				Poppy ...	15	12	9		
				Jute ...					
District Total		2,079	1,555		50'82				
Gya ...	Sudder ...	1,839	1,434	Poppy ...	147'50	15	10		Westerly wind which blew for five or six days caused some injury to the poppy crop.
				Sugarcane ...	115'33	16	15		
	Aurangabad ...	1,246	747	Opium ...	15	14	8		
				Sugarcane ...	10	16	16		
Jehanabad ...		697	503	Sugarcane ...	30	16	12		
				Poppy ...		14	10		
				Poppy ...		14	10		
				Sugarcane ...		16	16		
Nawada ...		1,020	763						
District Total		4,712	3,440		328'85				
Shahabad	Arrah ...	915	778	Sugarcane ...	19	8	10		Failure of Christmas rain and insects in some places are said to have affected the poppy.
				Poppy ...	12	12	10		
	Bexar ...	656	563	Sugarcane ...	7'8	10	12		
				Poppy ...	8	8	16		
Sasseram ...		1,463	809	Tobacco ...	2	11	12		
				Sugarcane ...	10	12	8		
				Poppy ...	10	12	8		
				Sugarcane ...	33	12	12		
Bhabuah ...		1,501	976	Poppy ...	33	8	10		
District Total		4,365	3,126		135'8				
Durbhanga	Sudder ...	1,222	929	Tobacco ...	29'15	13	13		The sowings were performed under very favourable circumstances, but owing to want of rain afterwards the outturn of tobacco was reduced.
				Poppy ...		16	14		
				Sugarcane ...		16	16		
				Tobacco ...	30	16	16		
Madhubani ...		1,349	1,100	Sugarcane ...	80				
				Poppy ...	3				
				Tobacco ...	59	13	12		
				Poppy ...	12	13	12		
Tajpur ...		764	649	Sugarcane ...	13	13	13		
District Total		3,535	2,678		102'5				

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
PATNA DIVISION--concluded.									
Muzaffer- pore.	Mozafferpore	1,218	960	Jute	90	14	12	The deficiency of the winter rains did some damage to these crops; otherwise the outturn would have been an average one.	This remark can not apply to jute, which is not grown to any extent in these districts.
	Hajipore ...	771	529.6	Tobacco					
	Sitamarhee ...	1,014	776.64	Sugarcane					
				Poppy					
	District Total	3,003	2,260.24		214				
Saran ...	Sudder ...	998	850	Tobacco	15	16	9	Owing to excessive rainfall the sugarcane was much damaged.	
				Sugarcane					
				Poppy					
				Miscellaneous					
	District Total	2,622	2,129.50		153.50				
Chumparan	Sudder...	1,518	1,023	Poppy ...	69	15	11		
	Bettiah ...	2,613	1,500	Sugarcane ...					
				Poppy ...					
				Sugarcane ...					
	District Total	3,531	2,223		125				
BHAGULPORE DIVISION.									
Monghyr...	Sudder ...	1,529	1,091	Sugarcane ...	1	16	16	There was total absence of rain during the rubber season, and hence the short outturn.	The spring sown indigo must have been affected by drought in March, April and the greater portion of May. The sugarcane was also injured to some extent in this way.
	Begusserai ...	769	577	Poppy ...					
	Jamul ...	1,503	1,062	Tobacco ...					
				Sugarcane ...					
	District Total	3,801	2,730		46				
Bhagulpore	Sudder ...	936	655	Jute ...				Jute, tobacco, and sugarcane are grown here in very small quantities. This year's crops suffered from total cessation of rain during the growth of these plants.	
				Tobacco					
				Sugarcane					
				Poppy					
	District Total	4,268	3,041						
Purneah ...	Sudder ...	1,185	888	Indigo		13	16	The outturn of tobacco is poor owing to want of rain in Aughan and Poush (December and January) last, and the young plants of jute were also damaged by the floods of July and August last. Sugarcane suffered from excessive rain in July and September last.	
	Madohpurah	872	542	Sugarcane					
	Supoul ...	1,275	956	Indigo					
				Sugarcane					
	District Total	4,268	3,041						
Farrukh ...	Sudder ...	2,573	1,929	Jute ...	190	17	12		
	Arrareah ...	1,044	709	Sugarcane					
				Tobacco					
				Jute					
	District Total	4,950	3,634		426				
Maidah ...	Sudder ...	1,340	1,003	Jute	110	14	14		
				Tobacco					
				Sugarcane					
	District Total	4,950	3,634		426				
Sonthal Persun- nals.	Whole district	1,902	1,268	Jute	65	14	12	The crops suffered as in the preceding year from want of timely rainfall.	
				Mulberry					
				Indigo					
				Tobacco					
	District Total	1,902	1,268		290				
Rajmehar ...	Sudder ...	1,429	768	Sugarcane	10	8	10	Want of rain during the cold weather reduced the outturn.	
	Deoghur ...	984	257	Sugarcane					
	Godda ...	900	676	Sugarcane					
				Tobacco					
	District Total	2,902	1,268		290				
Jamtara ...	Sudder ...	740	555	Jute	92	12	8		
				Tobacco					
				Sugarcane					
				Sugarcane					
	District Total	2,902	1,268		290				

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
ORISSA DIVISION.									
Cuttack ...	Sudder ...	989	533	Tobacco ...	7	8	9	The diminished outturn is due to excessive rainfall in November last.	
				Jute ...	250	8	8		
	Banki ...	116	60	Sugarcane ...	5	12	6		
				Sugarcane ...	2	16	12		
	Kendrapara ...	1,484	801	Tobacco ...	330	9	10		
				Jute ...	14	12	12		
Jajpore ...				Tobacco ...	54	16	13	Excess of rainfall at the time of sowing and ploughing caused the short outturn this year.	
				Sugarcane ...	54	12	12		
				Tobacco ...	2	12	12		
				Sugarcane ...	3				
	District Total	3,633	1,894		4323				
	Balasore ...	Balasore ...	1,153	670	Jute ...	475	14			16	The crops suffered a little from want of rain in proper time.
				Sugarcane ...	423				
Bhuddruk ...		908	720	Jute ...	1928	13	12		
				Tobacco ...					
				Sugarcane ...					
District Total		2,061	1,390		10228				
Pooree ...	Sudder ...	1,530	720,389	Jute ...	5	11	10		
				Tobacco ...	6	8	7		
				Sugarcane ...	950	8	9		
				Castor ...	10	8	6		
				Cotton ...	2	8	8		
				Sugarcane ...	290	10	12		
			Jute ...	240					
District Total	2,520,202	1,134,940		3780					
CHOTA NAGPORE DIVISION.									
Hazaribagh	Head-quarters	4,575	2,593	Sugarcane ...					
				Jute ...	165	15			
				Tobacco ...					
				Cotton ...					
				Poppy ...					
				Poppy ...	67	16	104		
Giridih ...		2,446	1,280	Sugarcane ...					
				Poppy ...					
				Tobacco ...					
				Jute ...					
	District Total	7,021	3,873		232				
	Lohardugga	Head-quarters	7,804	1,673	Tobacco ...		3 to 6			5
				Sugarcane ...		5 to 19	4		
Palamow ...		4,241	2,130	Sugarcane ...	369	6	9		
				Poppy ...	239				
District Total		12,045	3,803		600				
Manbhoom		Govindpore ...	893	289	Jute ...	3	16	12	
				Tobacco ...	3	16	12		
				Sugarcane ...	14	8	8		
				Sugarcane ...	4	12	10		
				Cotton ...	12	12	12		
				Babul ...	15	8	12		
Singbhoom				Indigo ...	6	12	12		
				Tobacco ...	12	8	10		
District Total	4,147	1,492		80					
Singbhoom	Kolhan per-gunnah.	1,946	973	Tobacco ...	3	16	12		
				Tusser ...	4				
				Sugarcane ...	1				
				Sugarcane ...	1	16	1		
				Tobacco ...	4				
				Tusser ...	4				
Dhalbhoom ...				Sugarcane ...	2	16	4		
				Tobacco ...	2				
				Jute ...	2				
District Total	3,753	1,793		23					
GRAND TOTAL FOR THE WHOLE OF BHARAT		1,53,321,712	8,75,41,89		9,556,249				

No. 109Mne., dated Calcutta, the 2nd May 1890.

THE following report of the 12th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners for making Improvements in the Port of Calcutta, is published for general information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal, P. W. Dept.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

No. 2722, dated Calcutta, the 25th April 1890.

From—W. CONNAN, Esq., and W. H. KING, Esq.,

To—The Secretary to the Government of Bengal, Public Works Department.

IN accordance with the orders of the Government of Bengal, memorandum No. 1042 (Marine) of the 22nd instant, we have the honour to report that the 12th quarterly inspection of the Kidderpore Dock Works was made on the 24th instant.

2. The usual tabular statement and the index plan showing the work done during the quarter ending 31st March 1890, and the total amount executed from the commencement, which have been prepared by the Superintending Engineer of the Dock Works, are already with Government.

3. The progress during the quarter is under noted.

PERMANENT WORKS.

Sixty-feet Lock.—This work is practically completed, hanging the riverside gates only remaining to be done.

Eighty-feet Entrance.—The gates are being erected, the work being otherwise almost finished.

Double Entrance to Dock No. 1.—This work is nearly completed, the gates being nearly all hung. Arrangements are being made for erecting the swing bridge.

Tidal Basin.—The unfinished portion of the north-east corner has been founded, and the short gap at the south-west corner will soon be taken in hand.

Graving Dock.—One and-a-half lakh cubic feet of brickwork was done during the quarter, and the work is, say, $\frac{2}{3}$ ths completed.

Government Graving Dock.—Very good progress has been made with this Dock during the quarter, half the area being founded, and 44 per cent. of the masonry done.

Dock No. 1.—The masonry of the Dock is nearly completed, 3 per cent. only remaining to be done. Over 36½ lakhs of excavation were taken out during the quarter.

Boat Canal.—Lift lock finished with the exception of the erection of gates and building revetments. Diamond Harbour Road bridge finished with the exception of the approaches. Tollygunge Circular Road bridge finished except the approaches and erection of main girders, the staging for which is ready and fitting begun. The siphon culvert under the canal is nearly done. The lock at Chetla is in progress, the excavation for the foundations being nearly completed. The supply sluice at Chetla has its platform built.

Subsidiary work.—The chimney shaft and accumulator tower of the Hydraulic Engine-house are approaching completion. The foundation for the Graving Dock Engine-house will shortly be begun, and the erection of the main Pumping Station machinery has commenced. The foundations of one cargo-shed have been got in.

Expenditure.—The total expenditure up to the end of the quarter under review is reported as Rs. 1,71,00,838-10-11, the expenditure on works being Rs. 1,45,22,906-7-10, and on land Rs. 25,77,932-3-1.

Sanitary.—The daily average number of workpeople employed during the quarter was 8,189, amongst whom there were 36 deaths, the death-rate being 17·96 per 1,000 per annum.

GENERAL REMARKS.

We are of opinion that good progress has been made with the works, and, so far as we have been able to judge from a quarterly inspection, the work done during the quarter is sound and substantial.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 3rd May 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan May 3, '90	0.02	Weather—very hot; sometimes cloudy and windy. Ploughing going on in some parts of the district. Rain very much wanted. Prospects of sugarcane and <i>til</i> not good. Prices of common rice:— Srs. Sudder ... 16½ Culna ... 15 Cutwa ... 15½ Ranigunge ... 17½ } per rupee.
	Cutwa ...	0.01	
	2 Bankoora „ 3, '90	0.03	
	3 Birbhum „ 3, '90	Nil	
	4 Midnapur „ 3, '90	Nil	
BURDWAN DIV.	5 Hooghly „ 3, '90	0.34	Weather—hot. <i>Boro</i> crop being reaped. Sugarcane in want of rain. Water becoming scarce in wells and tanks. Prices of common rice:— Srs. Sudder ... 18 Contai ... 20 Ghatal ... 18 Tamluk ... 16 } per rupee.
	Howrah „ 3, '90	0.09	
	6 24-Pergha May 6, '90	Nil	
	7 Nuddea „ 3, '90	Nil	
	Kushtea ...	1.14	
PRESIDENCY DIV.	Meherpore ...	0.4	Weather—very hot. Prospects of sugarcane good. Sowing of <i>aus</i> and jute has commenced. Rain wanted. Common rice sells at 15 seers per rupee. Stormy winds moderate the heat. Sowing of early rice and jute going on. More rain needed.
	Chuadanga ...	0.77	
	8 Khoolna „ 3, '90	0.13	
	Bagirhat ...	1.97	
	Satkhira ...	0.68	
PRESIDENCY DIV.	9 Jessore „ 3, '90	0.93	Weather—very hot and cloudy with occasional showers and high winds. More rain wanted to facilitate sowings of early rice, indigo, and jute, which are in progress.
	Jhenidab ...	0.82	
	Magura ...	0.39	
	Narail ...	1.29	
	Bongong ...	0.35	
RAJSHAHY DIV.	10 Moorsamednadi „ 3, '90	Nil	Weather—hot with passing clouds. Land is being prepared for <i>bhadoi</i> sowings, but rain is much needed. Price of common rice rising, and averages 14 seers per rupee in the district.
	11 Dinagepur „ 3, '90	0.24	
	Thakurgaon ...	1.92	
	12 Rajshahye „ 3, '90	0.10	
	Nattore ...	2.58	
RAJSHAHY DIV.	Nowgong ...	0.55	Weather—hot and seasonable. The late rain has done great good. Jute and paddy sowings are in full swing. Some part of the district, however, requires more rain.
	13 Rungpur „ 3, '90	0.09	
	Gaibanda ...	2.50	
	Karigram ...	0.57	
	14 Bogra „ 3, '90	0.57	
RAJSHAHY DIV.	Sherpur ...	1.40	Weather—damp, sultry, and sometimes stormy. Jute and <i>aus</i> rice are being sown in some places, and the plants are up and thriving in others. The rain has done much good, and preparations for the <i>amun</i> crop are well forward. Common rice is selling at 18 seers per rupee.
	Nowshilla ...	1.25	
	15 Patna „ 3, '90	0.25	
	16 Darjeeling „ 3, '90	1.42	
	17 Julpigoree „ 3, '90	1.22	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL,—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca May 3, '90	1.05	Weather—hot and cloudy. Rain heavier at Narsingunge than elsewhere. No rain at Munshigunge. Harvesting of <i>boro</i> paddy nearly completed. Ploughing and sowing of rice and jute going on. <i>Cheena</i> and <i>kaon</i> thriving. Price of common rice 13 to 16 seers per rupee.
	19 Furreedpur „ 3, '90	1.00	Weather—seasonable. Sowing of <i>aus</i> and <i>amun</i> paddy and jute in progress. Prospects favourable. Sugarcane improving. Price of common rice varies from 13 to 16 seers per rupee.
	20 Backergunge „ 3, '90	0.95	Weather—hot and cloudy with occasional showers. State of crops fair. Common rice sells at 12 to 14 seers per rupee.
	21 Mymensingh „ 3, '90	0.32	Weather—hot and seasonable. Prospects good. Reaping of <i>boro</i> paddy and sowing of <i>aus</i> paddy and jute nearly completed. Price of coarse rice 13½ seers per rupee.
Chittagong Divn.	22 Chittagong „ 3, '90	1.05	Weather—seasonable. Sowing of <i>aus</i> paddy in progress. State of chilly crop good. Prices of rice steady.
	23 Noakholly „ 3, '90	0.22	Weather—days hot and sultry, nights generally cool. <i>Aus</i> being sown. More than half the chilly and pulse crops gathered. Price of rice stationary.
	24 Tipperah „ 3, '90	0.99	Weather—seasonable. Outturn of <i>boro</i> paddy estimated at 16 annas. <i>Aus</i> , <i>amun</i> , <i>til</i> , jute, and sugarcane doing well. Prospects much improved by late rain.
	25 Chittagong Hill Tracts. „ 2, '90	0.11	Weather—sultry, with passing clouds throughout the week except the last day, which was cloudy with occasional sunshine. <i>Jam</i> burning still continues, but greatly retarded by rain of the previous week. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice is being sold at 13 seers 5½ chittacks per rupee.
BEHAR.	Hill Tipperah ...	...	Report not received.
Patna Divn.	26 Patna „ 3, '90	Nil	Weather—hot and dry. Threshing and winnowing of <i>rubbi</i> crops almost finished. <i>Cheena</i> promising well. Prices of food-grains almost stationary with a tendency to rise.
	27 Gya „ 3, '90	Nil	Weather—hot. <i>Cheena</i> and sugarcane doing well. Threshing of <i>rubbi</i> crops and opium weighments finished.
	28 Shahabad „ 3, '90	Nil	Weather—seasonable. Threshing of <i>rubbi</i> crops nearly over. Standing crops doing well. Prices stationary.
	29 Samseram „ ...	0.12	
Patna Divn.	29 Durbhunga „ 3, '90	Nil	Weather—clear and hot. Prospects of <i>mung</i> and paddy continue favourable. Want of more rain retards progress of cultivation for <i>bhadoi</i> crops. Common rice selling at 13½ seers per rupee.
	30 Mozufferpur „ 3, '90	0.04	Weather—hot. Winds chiefly from the east. Slight rain in the Sitamarhi and Sudder subdivisions. Rain much wanted. Paddy, <i>mung</i> , <i>cheena</i> , <i>sama</i> , and <i>kodo</i> still being sown.
	31 Sitamarhi „ ...	0.20	
	31 Sarun „ 3, '90	Nil	Weather—hot. Occasional clouds. Wind variable. Indigo indifferent except in the north and west of the district. <i>Cheena</i> good.
Bhagalpore Divn.	32 Champaran „ 3, '90	Nil	Weather—hot. West and east winds blowing alternately; cloudy at times. Lands are being dug and ploughed for paddy and other crops. <i>Kodo</i> is being sown. <i>Cheena</i> growing well. Rain wanted. Opium weighment nearly finished.
	33 Monghyr „ 3, '90	Nil	Weather—hot and dry. Easterly wind since last two days. Rain wanted throughout the district. Lands are being ploughed for <i>bhadoi</i> crops in the Begusrai subdivision. Prices stationary.
	34 Bhagalpur „ 3, '90	Nil	Weather—very hot and close with east wind. Mango crop doing well. Sugarcane and <i>cheena</i> promising. Prospects of indigo good. Rain much wanted for <i>bhadoi</i> ploughings.
	35 Parneah „ 3, '90	Nil	Weather—generally easterly winds prevailing; nights cool. <i>Rubbi</i> outturn fair. <i>Bhadoi</i> and jute being sown. Prospects of crops fair as yet. Rain wanted.
	36 Kissengunge „ ...	0.63	
	36 Maldah „ 3, '90	0.34	Weather—mornings cool and cloudy, days very hot; high wind with slight rain yesterday (2nd). Harvesting of <i>boro</i> paddy continues. This crop has been damaged to some extent by hailstones in thana Kaliachak. <i>Bhadoi</i> and winter rice crops are being sown; rain is much wanted for these crops. State of mulberry and indigo continues fair. Leaves of mulberry are being cut in some places. Common rice selling at an average of 14½ seers per rupee.
	37 Sonthal Pergas. Pakour „ 3, '90	Nil	Weather—at head-quarters cooler than usual with east wind. Rain wanted for sugarcane, and in some parts for agricultural operations.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack	...	Report not received.
	39 Pooree May 2, '90	Nil	Weather—hot. Lands are being ploughed for the ensuing <i>sarad</i> crop. <i>Dalms</i> and <i>mung</i> crops are being harvested. Prices of food-grains stationary.
	40 Balasore „ 3, '90	Nil	Weather—hot and dry. Rain wanted to complete cultivation. Average number of coolies on relief works 126.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVN.	41 Hazaribagh May 3, '90	Nil	Weather—seasonable: very hot. Sugarcane doing well. Mango promising. No other crops.
	42 Lohardugga Palamow (up to 29th April). „ 3, '90	Nil 0.18	Weather—seasonable and hot. Lands are being ploughed. Mango doing well. Prices steady.
	43 Singbhoom May 3, '90	0.04	Weather—hot and close. Sugarcane is being planted. <i>Mohua</i> and mango doing well. Prices stationary.
	44 Manbhoom „ 3, '90	0.01	Weather—hot. No crop on the ground except sugarcane, which is doing well. Rice selling at from 18 to 26 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 6th May, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
30TH APRIL 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (<i>Sorghum Vulgare.</i>)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Burdwan	15 4	14 8	18 2	...	...	...	12 12	13 8	12 6	15 9	16 14	15 3	...	...	...
2	Bankoora	15 0	15 0	14 0	20 0	18 0	18 0	17 8	17 8	15 0	19 0	20 0	17 8	...	...	...
3	Beerbhoom*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Midnapore	14 0	14 0	10 0	15 0	17 8	...	14 0	14 0	12 0	17 0	17 8	16 8	...	...	...
5	Hooghly*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah	...	...	...	...	...	...	11 4	11 8	10 0	14 8	15 0	13 8	...	...	...
Central Districts.																			
	Calcutta	13 4	13 5	12 14	17 8	17 8	17 2	8 11	8 14	9 3	13 11	13 9	13 1	21 7	20 0	16 10			
6	24-Pergunnabs	14 8	14 8	13 6	20 0	20 0	16 0	8 0	8 0	8 0	14 8	15 0	13 8	...	...	...
7	Nuddes	15 0	15 0	14 15	20 0	19 0	20 0	11 14	12 5	12 4	13 5	12 10	16 0	...	...	...
8	Khoolna	...	...	...	...	...	...	13 0	12 0	12 0	15 0	14 8	13 0	...	...	...
9	Jessore	13 0	13 0	11 0	...	...	...	9 0	10 8	11 0	15 0	14 8	15 0	...	...	...
10	Moorshedabad*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Dinapore	19 4	19 4	12 0	14 8	...	...	15 0	13 3	13 0	18 0	18 0	15 8	...	...	...
12	Rajahmbye	17 4	16 8	16 8	24 0	24 0	24 0	12 0	12 12	12 0	13 8	14 4	13 14	...	...	...
13	Rungpore	13 5	13 5	14 8	...	...	...	9 6	9 7	10 8	13 5	13 5	16 0	...	...	...
14	Bogra	13 8	13 8	15 0	...	...	...	12 0	12 0	13 8	16 8	16 8	18 12	...	...	...
15	Pubna	18 12	18 0	16 14	...	...	...	6 12	6 14	7 8	14 4	15 0	15 12	...	...	...
16	Darjeeling	9 0	9 0	16 0	10 0	10 0	6 0	6 0	6 0	6 0	12 0	12 0	12 0	...	...	...
17	Julpigoree*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastern Districts.																			
18	Dacca	13 0	13 0	15 8	16 0	16 0	26 0	14 0	14 0	13 4	15 0	15 0	15 4	...	...	...
19	Furzedpore	14 0	14 0	20 0	18 0	20 0	25 0	9 0	9 0	9 0	13 0	13 0	12 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 8	12 8	10 8	14 0	14 0	12 0	...	...	...
21	Mymensingh	11 8	11 8	10 8	...	...	...	10 0	10 0	13 0	13 8	13 8	18 0	...	...	...

* Return not received.

A In subdivisions retail prices of salt per rupee are:—Guzra 10 seers, Cutwa 10 seers 6 chittacks, and Haneegunge 10½ seers.

B In subdivisions retail prices of salt per rupee are:—Contal 8 seers, Tumlook 8 seers, and Ghatal 10½ seers.

B1 In subdivisions retail prices of salt per rupee are:—Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Dum-Dum 10 seers, and Barrackpore 9 seers 2 chittacks.

C In subdivisions retail prices of salt per rupee are:—Koochta 10 seers, Meherpore 9 seers, Chooadanga 9 seers, and Ranaghat 9 seers 2 chittacks.

D At Bagriak retail price of salt 8 seers per rupee.

E In subdivisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.

F At Thakurgaon retail price of salt 8 seers per rupee.

Head-quarter Station Bazars of the Districts of Bengal on the 30th April 1890.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.									
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.							
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.							
...	20 0	20 0	18 0	100 0	100 0	107 0	A 10 0	10 0	9 14	3 11 3	3 11 3	3 11 6	Burdwan.						
30 0	30 0	21 0	21 4	20 8	17 8	280 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Bankoora.						
...	Beerbhoom.						
...	14 0	15 0	14 0	160 0	160 0	160 0	B 10 2	10 3	10 4	3 14 6	3 14 0	3 14 0	Midnapore						
...	Hooghly.						
...	13 4	13 4	13 0	100 0	100 0	100 0	10 0	10 0	10 8	3 12 0	3 12 0	3 10 6	Howrah.						
Central Districts.																					
18 2	18 0	...	16 11	16 13	15 10	100 0	100 0	99 0	10 5	10 5	10 5	3 9 3	3 9 5	3 9 5	Calcutta.						
...	17 0	18 0	15 0	100 0	100 0	100 0	BI 10 4	10 4	10 8	3 9 6	3 9 0	3 8 9	24-Pergunnahs.						
...	19 0	17 12	16 0	...	...	...	C 9 13	9 13	9 2	3 14 0	3 13 0	3 14 0	Nuddea.			
...	160 0	160 0	160 0	D 9 8	8 0	9 0	4 4 0	4 8 0	4 0 0	Khoolna.						
...	18 0	18 0	21 8	160 0	160 0	160 0	E 9 2	9 2	9 0	4 0 0	4 0 0	4 0 0	Jessore.						
...	Moorshedabad.						
...	15 8	15 8	11 0	160 0	160 0	160 0	F 9 8	9 8	9 8	4 0 0	4 0 0	3 15 0	Dinapore.						
...	18 8	17 5	20 6	240 0	240 0	240 0	G 9 0	9 0	8 13	4 2 8	4 2 8	4 5 4	Rajshahye.						
...	10 10	9 7	13 0	100 0	100 0	120 0	H 9 6	8 14	9 6	4 8 0	4 8 0	4 4 0	Rungpore.						
...	90 0	90 0	96 0	9 0	9 0	9 6	4 4 0	4 4 0	4 2 8	Bogra.						
...	18 12	18 12	21 0	200 0	200 0	200 0	I 8 11	8 11	9 2	4 0 0	4 0 0	4 1 0	Pubna.						
13 0	13 0	18 0	9 0	8 0	...	120 0	120 0	120 0	J 7 0	7 0	7 0	5 0 0	5 0 0	5 0 0	Darjeeling.						
...	Julpigoree.						
Eastern Districts.																					
...	13 0	14 0	16 0	160 0	160 0	120 0	K 9 8	9 8	10 0	4 2 0	4 2 0	3 14 0	Dacca.						
15 0	15 0	...	11 0	11 0	14 0	120 0	120 0	120 0	8 8	8 8	9 0	4 12 0	4 12 0	3 15 6	Furroedpore.						
...	12 4	11 4	12 8	120 0	120 0	120 0	L 10 0	10 0	18 14	13 15 0	4 0 0	4 0 0	Backergunge.						
...	10 0	10 0	16 0	...	...	...	M 9 8	9 8	10 0	4 1 6	4 3 0	3 15 0	Mymensingh.			

- G In subdivisions retail prices of salt per rupee are :—Nattore 9 seers and Nowgong 9 seers 9 chittacks.
H In subdivisions retail prices of salt per rupee are :—Nilphamari 9 seers, Ghibanda 8 seers, and Kurigram 9 seers.
I At Serajgunge retail price of salt 9½ seers per rupee.
J At Siliguri retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are :—Manickgunge 8 seers, Moonsheegunge 8 seers 14 chittacks, and Naraingunge 10 seers.
L In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozapore 9 seers, and Bhola 8 seers.
M In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																			
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 8	12 8	11 0	16 0	16 0	13 0	...	...	...
23	Noakholly* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Tipperah ...	14 9½	14 9½	12 8	...	...	...	10 0	10 0	13 8	13 5	13 5	14 8	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	12 0	12 7	10 0	13 5	13 14	11 6	...	...	...
	Hill Tipperah...	6 0	6 "	6 0	...	...	...	8 0	8 0	8 0	14 0	14 0	16 0	...	...	...
BEHAR.																			
26	Patna ...	17 8	Red. 17 0	...	24 8	25 0	20 8	10 0	10 8	10 0	16 14	17 8	13 8	18 0	19 0	20 0			
		15 8	White. 15 8	15 0	...	...	...	...	...	...	...	...	...	...	...	...
27	Gya ...	17 8	17 8	15 8*	24 0	24 "	21 0	11 8	11 8	8 8	16 0	16 0	12 8	...	...	...
28	Shahabad ...	15 0	15 0	14 8	22 0	22 0	20 0	8 0	8 0	8 8	14 0	15 0	13 8	22 0	Pea. 20 0	20 0			
29	Durbhunga* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	Mozufferpore	16 0	16 0	12 8	25 0	24 0	18 0	9 0	9 0	9 0	15 0	16 0	11 0	...	...	...
31	Sarun ...	15 8	15 4	14 8	21 8	21 8	20 8	8 8	8 8	8 8	13 8	15 6	12 14	...	...	...
32	Chumparun ...	16 0	16 0	12 0	28 0	23 0	21 0	8 0	8 0	7 0	16 0	16 0	11 8	...	...	...
33	Monghyr ...	17 13	17 13	16 13	23 1	23 1	22 0	15 12	15 12	12 9	17 13	17 13	13 2	...	...	...
34	Bhagulpore ...	17 11	17 11	16 6	24 0	23 5	21 7	Old. 10 1	New. 10 1	12 10	Old. 12 10	New. 12 10	13 4	...	...	...
								13 14	13 14	17 0	17 11	17 11	...	...	...	...
35	Purneah ...	18 0	16 "	14 0	...	...	...	17 0	17 0	13 0	13 0	18 0	15 0	...	...	...
36	Maldah ...	18 0	18 0	16 0	...	...	...	10 0	8 0	10 0	13 0	15 0	15 4	...	...	...
37	Sonthal Pergas.	13 0	13 0	12 0	...	...	...	13 0	13 0	13 0	16 0	16 0	15 0	...	...	...
ORISSA																			
38	Cuttack ...	11 13	14 7	14 7	...	...	...	10 8	10 8	10 8	18 6	18 6	14 7	...	...	...
39	Pooree ...	13 2	11 13	13 2	...	...	...	17 1	14 7	11 13	21 0	21 0	15 12	...	...	...
40	Balasore ...	15 0	15 0	17 0	13 0	13 0	13 0	13 0	13 0	12 0	19 0	20 0	17 0	...	...	...
CHOTA NAGPORE.																			
South-West Frontier Agency.																			
41	Hazaribagh ...	13 8	14 0	14 8	13 0	13 0	18 0	10 0	10 0	8 0	17 0	17 0	15 0	...	...	...
42	Lohardugga ...	14 0	Red. 14 0	13 0	18 0	23 0	16 0	14 0	14 0	13 0	Middling 16 0	16 0	115 0	...	...	...
		8 (old)	White. 9 0	...	...	...	...	...	...	...	Coarse. 18 0	19 0	...	...	...	...
43	Singbhoom ...	10 0	10 0	14 0	10 0	10 0	16 0	16 0	16 0	14 0	20 0	20 0	22 0	...	...	...
44	Manbhoom ...	13 0	13 5	13 0	20 0	30 0	20 0	14 0	14 8	13 0	22 0	22 0	18 0	...	...	...

* Return not received.

† Price of common rice at Jaipore 22 seers 5 chittacks and at Kendrapara 23 seers 10 chittacks per rupee.
 N At Cox's Bazar retail price of salt 8 seers per rupee.
 O In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Sasseram 10 seers, and Bhabuah 9 seers.
 P In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
 The 6th May, 1890.

JOWAR OR CHOLUM. (<i>Sorghum Vulgare.</i>)	BAJRA OR CUMBU. (<i>Pennisetum typhoidum.</i>)
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[illegible]

KANGNI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica</i> .)	GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer arisitinum</i> .)
--	---

Present return.		Next preceding re- turn.		Corresponding re- turn of last year.		Present return.		Next preceding re- turn.		Corresponding re- turn of last year.	
S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
121	100	101				12	4	12	4	13	0
100	100	101						100			
12	101	100				13	5	13	5	16	0
100	100	100						100		100	
100	100	100				12	0	12	0	10	0

18 0	20 0	12 0	23 0	24 0	20 0
15 0	15 0	11 0	20 0	20 0	19 0
000	000	000	23 0	23 0	20 8
000	000	000	000	000	000
000	000	000	20 0	21 0	19 0
16 0	16 0	11 0	20 12	21 8	20 8
000	000	000	26 0	25 0	17 8
000	000	16 13	23 1	25 14	21 10
000	000	000	21 7	20 3	20 3
000	000	000	22 0	20 0	16 0
000	000	000	22 0	22 0	24 0
000	000	000	17 0	17 0	17 0

...	...	...	15 12	15 12	21 0
...	...	...	14 7	14 7	15 12
...	...	...	14 0	14 0	13 0

100	000	000	16	0	17	0	14	8
001	000	000	12	12	15	8	13	0
100	001	000	10	0	10	0	12	0
001	001	001	17	0	18	0	13	8

BAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>ideum.</i>)	MARUA OR RAUL. (<i>Eleusine Corocana.</i>)
--	---

[illegible][illegible]

[20]	[10]	[10]	[10]	[10]
[20]	[10]	[10]	[10]	[10]
[20]	[10]	[10]	[10]	[10]
[20]	[10]	[10]	[10]	[10]
[20]	[10]	[10]	[10]	[10]

970a

KANGNI OR KARUN, ITALIAN MILLET. (<i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAT OR SUNAGA. (<i>Cicer arietinum</i> .)		
Present return.	Next preceding turn.	Corresponding turn of last year.	Present return.	Next preceding turn.	Corresponding turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	19 0	19 0	17 0	...	...	...
...	18 0	18 0	16 0	...	...	...
...
...	15 0	16 0	14 4	...	...	...
...
...	17 12	17 8	19 0	...	...	...

10 0	10 5	17 12	16 15	17 10	16 13
6 0	6 0	12 0	19 0	20 0	17 8
...	...	...	20 8	21 5	20 0
...	...	...	13 0	13 0	14 0
...	...	...	16 0	16 0	20 0
...
...	...	...	16 0	16 0	13 0
...	...	...	19 8	21 0	21 0
...	...	...	12 4	12 4	10 5
...	...	...	15 0	15 0	19 8
...	...	...	18 12	18 0	22 0
...	...	...	10 0	11 0	9 0
...

...	...	...	14 0	13 0	13 0
...	...	...	15 0	15 0	22 0
...	...	...	13 12	15 4	17 0
...	...	...	13 4	13 0	16 0

9704

SEERS OF 80 TOLAHS.

BAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>ideum</i> .)			MARUA OR RAGI. (<i>Eleusine Corocana</i> .)		
Present return.	Next preceding turn.	Corresponding turn of last year.	Present return.	Next preceding turn.	Corresponding turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...
...
...
...
...

...	15 0	...	28 0	30 0	...
...
...
...
...
...
...
...
...
...
...
...

...
...
...

...	...	...	27 0	23 0	21 5
...	...	...	No	sale.	27 0
...
...

9724

OF 40 SEERS.

MARUA OR RAGI. (<i>Eleusine Corocana</i> .)			KANGNI OR KARUN, ITALIAN MILLET. (<i>Setaria italica</i> .)		
Present return.	Next preceding turn.	Corresponding turn of last year.	Present return.	Next preceding turn.	Corresponding turn of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 8 03	5 72 00	...
...
...
...
...
...
1 6 0	1 5 0	...	2 2 01	15 63 00	...
...
...
...

9746

Station Bazars of the Districts of Bengal on the 30th April 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CAJIAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	N 10 0	10 0	9 0	3 12 0	3 12 0	4 0 0	Chittagong.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Noakholly.
...	...	...	8 6 2	8 6 2	9 0	...	...	...	9 11	9 8 1	8 0	4 2 0	4 3 0	4 6 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
															BEHAR.
...	22 0	19 0	23 0	24 0	21 0	130 0	130 0	130 0	10 0	10 0	10 0	3 14 0	3 13 0	3 12 6	Patna.
...	...	...	21 0	21 0	18 4	160 0	160 0	200 0	9 2	9 2	9 2	4 2 0	4 2 0	4 2 0	Gya.
...	...	...	20 0	20 0	13 4	160 0	160 0	160 0	O 10 0	10 0	10 0	3 15 0	3 15 0	4 0 0	Shahabad.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Durbhunga.
21 0	20 0	16 0	18 0	19 0	20 0	160 0	160 0	160 0	P 10 0	10 0	10 0	4 0 0	3 12 0	3 12 0	Muzafferpore.
20 0	20 8	16 8	20 0	20 8	21 0	160 0	160 0	160 0	9 8	9 8	10 0	4 1 0	4 1 0	3 15 0	Sarun.
22 8	24 0	17 0	23 0	...	21 0	160 0	160 0	160 0	10 0	9 8	3 14 0	3 15 0	4 0 0	4 0 0	Champaran
21 0	21 0	21 10	23 1	23 1	18 10	147 0	147 0	147 0	Q 9 12	10 4	9 8	3 14 6	3 14 9	4 0 0	Monghyr.
22 11	22 11	17 10	20 3	21 7	20 3	176 12	176 12	176 12	10 1	10 1	10 1	3 15 6	3 15 0	4 0 0	Bhagulpore.
...	...	...	16 0	16 0	16 0	130 0	130 0	200 0	R 9 0	8 0	9 0	4 5 0	4 8 0	4 5 0	Purneah.
...	...	...	...	...	...	160 0	160 0	160 0	9 0	9 0	9 8	4 0 0	4 0 0	4 0 0	Maldah.
21 0	24 0	18 0	20 0	20 0	22 0	200 0	200 0	200 0	9 0	9 0	9 0	4 0 0	4 0 0	4 3 0	Sonthal Pergas.
															ORISSA.
...	...	...	19 11	19 11	19 11	80 0	80 0	80 0	11 0	11 0	11 0	4 7 0	3 12 0	3 12 0	Cuttack.
...	...	...	13 2	15 12	13 2	80 0	80 0	80 0	11 13	11 13	10 8	3 6 0	3 6 0	3 8 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	S 10 0	10 0	10 0	3 14 0	3 14 0	3 15 0	Balasore.
															CHOTA NAGPORN.
															South-West Frontier Agency.
22 0	22 0	16 0	23 0	21 0	118 8	320 0	320 0	320 0	8 0	8 0	8 8	4 4 0	4 4 0	4 6 0	Hazaribagh.
30 0	34 0	...	Small. 27 0 / 28 0 / 14 12 } Big. 18 0 / 18 0 / 12 8 }			120 0	120 0	140 0	8 8	8 12	8 0	4 10 0	4 3 0	4 14 0	Lohardugga.
12 0	12 0	22 0	14 0	14 0	16 0	240 0	240 0	200 0	8 8	8 8	7 0	4 12 0	4 12 0	5 8 0	Singbhoom.
32 0	29 0	25 0	19 0	21 0	16 0	300 0	200 0	200 0	T 9 2	9 2	9 0	4 4 0	4 0 0	4 4 0	Manbhoom.

Q In subdivisions retail prices of salt per rupee are:—Begusarai 9½ seers and Jamui 9 seers.
 R In subdivisions retail prices of salt per rupee are:—Kishengunge 8 seers and Arracah (at Ranigunge) 10 seers.
 S At Bhudruk retail price of salt 8 seers per rupee.
 T At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
 Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 12 3	2 11 9	2 13 7	2 0 8	2 0 5	2 1 2	4 5 2	4 4 0	4 0 3	2 10 8	2 11 0	2 13 2
2	Serajgunge ...	2 8 0	2 8 0	2 5 0	...	...	...	4 14 0	4 14 0	3 10 0	3 0 0	3 1 0	2 9 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	2 7 0	1 8 0	2 13 0	2 13 0	3 0 0	2 10 0	2 10 0	2 10 0
4	Naraingunge ...	...	...	...	...	...	...	3 2 0	3 0 0	3 0 0	3 0 0	2 12 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 0 0	3 0 0	3 8 0	2 8 0	2 8 0	3 0 0
6	Patna ...	<div> <div>Red.</div> <div>White.</div> </div> 2 4 0 2 8 0	<div> <div>Red.</div> <div>White.</div> </div> 2 5 3 2 9 0	2 12 0	1 9 0	1 9 3	1 15 6	3 15 0	3 12 0	3 14 0	2 5 0	2 4 0	3 1 0
7	Balasore ...												
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 0	1 14 0	2 4 0
9	Cuttack ...	3 4 0	2 10 0	2 10 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 10 0

CALCUTTA,
The 6th May, 1890.

in the undermentioned Marts of Bengal on the 30th April, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Cicer Arietinum.)			INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 1 6	2 0 0	2 2 3	1 15 6	1 14 9	...	2 2 2	2 1 5	2 5 1	0 5 6	0 5 6	0 5 9	3 9 2	3 9 5	3 9 5	Calcutta.
2 9 0	2 9 0	3 2 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 13 6	Serajgunge.
2 13 0	3 0 0	3 0 0	...	...	...	3 9 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca.
3 2 6	2 12 0	3 0 9	...	...	...	3 0 9	3 0 9	3 2 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
3 2 0	3 2 0	3 0 0	...	...	...	...	...	...	0 5 4	0 6 0	0 7 0	3 12 0	3 12 0	4 0 0	Chittagong.
1 11 6	1 10 3	1 15 9	...	1 12 9	2 1 9	1 11 0	1 10 6	1 14 9	0 6 0	0 5 9	0 5 0	3 14 0	3 13 0	3 12 6	Patna.
2 12 0	2 12 0	2 14 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 15 0	Balasora.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree.
2 5 0	2 5 0	1 11 0	...	...	...	2 0 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	4 7 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.
ORIGINAL.	Poorree	Poorree	29.775	29.787	-.012	SW	356	92.7	28th April	68.6	27th April	91.1	78.4	84.8	-	82.0
	Gopalpore	Gopalpore	29.765	29.787	-.022	SSW	473	91.2	28th "	78.8	27th "	88.6	81.1	84.9	+2.5	84.1
	False Point	False Point	29.770	29.791	-.021	SSW	353	94.0	27th "	73.6	27th "	90.9	78.0	84.5	-0.9	82.4
	Cuttack	Cuttack	29.714	29.795	+.081	SSW	98.6	113.4	26th "	72.3	28th "	105.1	79.1	93.1	+0.9	85.2
	Balasore	Balasore	29.712	29.771	-.059	SSW	248.7	107.5	26th "	70.9	28th "	100.3	76.6	88.5	+2.3	84.1
	South-West Midnapore	Saugor Island	29.735	29.781	-.046	SSW	408	96.7	26th "	73.0	28th "	93.6	79.4	86.5	+0.1	85.4
	South 24-Pergunnahs	Midnapore	29.621	29.772	-.051	S	114.0	109.4	2nd May	70.2	28th "	102.4	78.1	90.2	+1.1	84.9
	24-Pergunnahs	Calcutta	29.753	29.775	-.022	SSW	93	100.9	30th April	67.2	28th "	96.7	75.6	86.2	+0.9	83.1
	Howrah	Howrah	29.651	29.761	-.110	Variable	68.2	104.2	30th "	67.4	28th "	98.6	76.1	87.4	-0.7	83.4
	Hoochly	Hoochly	29.452	29.753	-.031	Calm	90.0	105.6	30th "	68.6	28th "	98.2	76.7	87.5	?	82.7
SOUTH-WEST BENGAL.	Burdwan	Burdwan	29.455	29.789	+.034	South-westerly.	128.1	106.5	26th "	68.9	28th "	100.4	77.3	88.9	+0.3	83.7
	West Burdwan	Berhampore	29.683	29.761	-.078	S	109.4	101.7	30th "	66.2	28th "	96.5	73.9	85.2	-1.9	79.9
	Moorshedabad	Krishnagur	29.719	29.767	-.048	SSE	147.5	102.8	30th April & 1st May	66.3	28th "	99.4	75.2	87.8	+1.7	83.2
	Nuddea	Krishnagur	29.719	29.767	-.048	SSE	147.5	102.8	30th April & 1st May	66.3	28th "	99.4	75.2	87.8	+1.7	83.2
	Jessore	Jessore	29.739	29.773	-.034	Variable	76.1	98.8	1st "	65.5	28th "	95.6	75.7	85.6	+0.5	80.3
	Khoolna	Jessore	29.739	29.773	-.034	Variable	76.1	98.8	1st "	65.5	28th "	95.6	75.7	85.6	+0.5	80.3
	Chittagong	Chittagong	29.718	29.808	-.090	SSE	97.7	91.2	27th April	72.6	29th "	89.7	75.3	82.5	+1.7	81.6
	Chittagong Hill Tracts	Demagiri	29.774	29.786	-.012	Southerly & calm	88.8	94.3	30th April, 1st May.	69.4	28th "	91.2	75.9	83.5	+1.7	83.4
	Backergunge	Barrisal	29.767	29.811	-.044	S	122.8	90.0	2nd "	68.8	28th "	89.4	74.7	82.1	+0.3	82.7
	Noakholly	Noakholly	29.764	29.794	-.030	South-easterly.	120.6	94.5	1st "	65.9	28th "	91.1	73.4	82.3	+0.5	80.1
EAST BENGAL.	Furteedpore	Furteedpore	29.765	29.788	-.023	South-easterly.	155.3	98.6	1st "	68.2	28th "	91.2	72.9	82.1	-0.8	81.7
	Dacca	Dacca	29.755	29.791	-.036	South-westerly.	110.4	94.3	30th April & 1st May	68.8	28th "	92.3	72.9	82.6	-0.8	81.3
	Commillah	Commillah	29.734	29.793	-.059	SW	116.2	91.7	26th April	68.1	28th "	89.4	72.8	81.1	+1.9	77.9
	Mymensingh	Mymensingh	29.760	29.764	-.004	ESE	116.2	91.7	26th April	68.1	28th "	89.4	72.8	81.1	+1.9	77.9
	Bogra	Bogra	29.781	29.778	+.003	ESE	84.9	94.3	26th "	65.1	28th "	91.1	71.9	81.5	-1.3	79.3
	Pubna	Serajgunge	29.781	29.778	+.003	Variable	137.9	92.1	26th "	64.9	28th "	90.5	72.0	81.2	0	77.7
	Rajshahye	Rampore Beaulah.	29.700	29.770	-.070	Variable	89.9	96.4	26th "	66.7	28th "	93.6	74.0	83.8	+0.1	79.7
	Maldah	Maldah	29.692	29.744	-.052	ESE	68.2	96.5	2nd "	64.9	28th "	94.3	72.1	83.2	-	80.3
	Dinapore	Dinapore	29.686	29.802	-.116	North-easterly.	134.3	96.1	26th "	65.2	28th "	90.4	71.4	81.0	+0.7	78.1
	Rungpore	Rungpore	29.672	29.799	-.127	E	56.1	94.8	2nd May	64.7	28th "	89.7	69.6	79.7	+2.1	78.6
NORTH BENGAL.	Julpigoree	Julpigoree	29.472	29.763	-.291	?	245.5	91.9	2nd "	?	?	87.6	?	?	?	77.3
	Cooch Behar	Julpigoree	29.472	29.763	-.291	?	245.5	91.9	2nd "	?	?	87.6	?	?	?	77.3
	Darjeeling Hill Tracts	Darjeeling	29.632	29.784	-.152	Variable	123.4	94.6	26th April	41.7	28th April	60.7	48.9	54.8	+1.0	54.3
	Purneah	Purneah	29.637	29.784	-.147	North-easterly.	114.5	99.8	2nd May	65.9	28th "	95.2	72.3	83.8	+2.3	81.3
	North Bhagulpore	Purneah	29.637	29.784	-.147	North-easterly.	114.5	99.8	2nd May	65.9	28th "	95.2	72.3	83.8	+2.3	81.3
	Mozufferpore	Mozufferpore	29.678	29.759	-.081	E	335.7	?	?	?	?	?	?	?	?	80.6
	Durbhunga	Durbhunga	29.608	29.776	-.168	Variable	135.9	99.4	2nd May	?	?	96.3	?	?	?	80.9
	Chumpara	Motihari	29.553	29.783	+.230	ENE	189.7	100.2	2nd "	64.5	28th April	93.8	71.8	82.8	+1.0	81.3
	Saran	Chupra	29.571	29.768	+.197	Variable	174.9	103.2	2nd "	60.9	27th "	95.0	72.7	83.8	-2.8	81.1
	Shahabad	Dehree	29.429	29.785	+.356	SW	156.1	109.4	2nd "	67.0	27th "	98.6	74.1	86.4	-2.3	83.3
SOUTH BENGAL.	Buxar	Buxar	29.528	29.772	+.244	Variable	153.8	105.4	2nd "	66.9	27th "	95.9	74.2	85.0	-3.7	82.3
	Arrah	Arrah	29.565	29.762	+.207	W	138.5	100.4	2nd "	66.2	27th "	96.1	73.6	84.8	-3.9	82.5
	Gya	Gya	29.552	29.767	+.215	E	154.1	103.5	2nd May	69.7	27th "	96.3	74.8	85.8	-2.6	81.7
	Patna	Bankipore	29.595	29.758	+.193	Calm	48.4	100.8	26th April	67.9	28th "	96.2	75.0	85.6	+1.9	81.7
	South Bhagulpore	Bhagulpore	29.595	29.758	+.193	Calm	48.4	100.8	26th April	67.9	28th "	96.2	75.0	85.6	+1.9	81.7
	Monghyr	Bhagulpore	29.595	29.758	+.193	Calm	48.4	100.8	26th April	67.9	28th "	96.2	75.0	85.6	+1.9	81.7
	South 24-Pergunnahs	Doomka	29.592	29.760	+.168	Variable	65.7	102.7	30th "	67.6	28th "	96.7	75.5	86.2	-0.5	82.2
	Hazaribagh	Hazaribagh	27.781	29.776	+.195	South-westerly.	278.3	102.5	1st May	66.3	27th "	94.6	72.5	83.5	-3.6	80.7
	Lohardugga	Rancher	27.667	29.776	+.109	South-westerly.	179.5	103.5	1st & 2nd May.	67.9	27th "	94.8	73.4	83.6	-2.5	81.0
	Manbhoom	Rancher	27.667	29.776	+.109	South-westerly.	179.5	103.5	1st & 2nd May.	67.9	27th "	94.8	73.4	83.6	-2.5	81.0
CHUTIA NAGPUR.	Singbhoom	Chyobassa	29.692	29.769	+.077	South-west-ly.	69.8	108.8	2nd "	69.7	27th, 28th April	102.5	76.4	89.5	-2.0	81.5
	Sibangor	Sibangor	29.502	29.841	-.339	NE	—	92.6	26th April	65.8	29th "	88.7	70.3	79.5	+1.7	76.4
	Assam	Dhubri	29.679	29.798	-.119	North-easterly.	265.7	89.7	27th "	68.8	28th "	87.1	71.7	79.3	+1.4	76.3
ASSAM.	Silchar	Silchar	29.765	29.812	-.047	Calm	47.6	91.5	28th "	6.8	29th "	88.3	72.0	80.2	+1.5	78.8

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last 10 years. The humidity of the atmosphere is expressed in percentage, saturated air being present at 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisions for the period in question during the past 10 years in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

the week ending Friday, the 2nd of May 1890.

				DISTRICT OBSERVATIONS.												METEOROLOGICAL DIVISION.
No.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK. Mean for district. Normal mean.	RAINFALL.										Representative station.	DISTRICT.	
				Since 1st of April.			Since 15th May 1889.			Average number of rainy days.	Normal number of rainy days.					
				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
64	1.4	Nil	Nil	0.11	0.03	1.04	-1.01	77.62	58.28	+19.34	0.0	0.0	Poorce	Poorce ...	ORISSA.	
65	0.9	Nil	Nil										Gopalpore	False Point ...		
66	1.3	Nil	Nil													
61	2.6	0.09	0.02	0.23	0.14	1.14	-1.00	68.44	54.99	+13.45	0.2	0.6	Cuttack	Cuttack ...	ORISSA.	
67	0	Nil	Nil	0.00	0.46	1.04	-1.48	52.00	57.58	-4.59	0.0	1.3	Balasore	Balasore ...		
74	2.0	Nil	0.02	0.63	0.03	1.88	-1.85	60.00	66.89	-6.89	0.3	1.3	Sankor Island	South-West Midnapore South 24-Pergunnahs		
67	1.6	Nil	0.03	0.69	0.51	1.02	-1.41	47.93	56.11	-8.18	0.3	1.5	Midnapore	Midnapore ...	SOUTH-WEST BENGAL.	
70	1.9	0.04	0.31	1.03	1.24	2.24	-1.00	55.93	56.65	-0.72	0.3	1.8	Calcutta	24-Pergunnahs... Howrah Hooghly		
63	2.1	0.02	0.14	1.08	2.04	2.92	-0.48	46.53	51.68	-5.15	1.0	2.0	Burdwan	Burdwan ...		
61	3.2	0.03	0.09	0.45	0.75	1.34	-0.59	57.57	55.44	+2.13	1.0	1.3	Bankoora	Bankoora ...	SOUTH-WEST BENGAL.	
63	3.4	Nil	0.03	0.37	1.17	1.34	-0.17	54.32	54.59	-0.27	0.3	1.4	Raneegunge	Reerbhoom West Burdwan		
73	3.3	Nil	0.03	0.50	1.50	1.92	-0.62	52.99	53.78	-0.79	0.2	1.4	Berhampore	Moorshedabad		
66	2.2	Nil	0.51	1.00	2.33	3.10	-0.77	54.35	55.08	-0.73	1.0	1.5	Krishnagpur	Nuddea ...	SOUTH-WEST BENGAL.	
63	4.7	0.03	0.62	1.22	3.62	3.65	-0.03	58.58	60.19	-1.61	1.8	2.0	Jessore	Jessore Khoolna		
61	2.6	0.05	0.53	1.34	4.30	3.55	+0.75	107.20	120.11	-12.91	1.0	2.1	Chittagong	Chittagong ...		
69	1.1	0.88	0.46	1.36	4.49	3.59	+0.90	83.49	83.81	-0.41	1.3	2.2	Demagiri	Chittagong Hill Tracts	EAST BENGAL.	
73	1.4	0.43	0.40	2.31	6.26	5.34	+0.92	99.95	117.28	-17.33	1.5	2.8	Barrisal	Backergunge ...		
60	4.4	0.90	1.10	1.53	5.48	4.31	+1.17	69.09	63.94	+5.15	2.3	2.3	Furreedpore	Furreedpore ...		
62	5.4	0.35	1.30	1.56	6.80	5.61	+1.19	84.74	68.87	+15.87	2.8	2.6	Dacca	Dacca ...	EAST BENGAL.	
61	4.3	1.26	1.19	2.00	5.39	5.83	-0.44	63.83	80.18	-16.35	3.3	2.4	Commillah	Tipperah ...		
63	4.0	0.36	0.67	1.98	5.62	4.78	+0.84	60.90	75.16	+14.24	1.2	2.7	Mymensingh	Mymensingh ...		
67	2.3	0.07	1.23	0.86	3.30	2.17	+1.13	60.69	61.28	+0.59	1.0	1.7	Bogra	Bogra ...	NORTH BENGAL.	
63	4.0	1.23	0.91	1.20	4.02	3.36	+0.66	61.40	50.26	+11.14	1.0	2.2	Serajpore	Pubna ...		
69	1.7	0.11	1.13	0.66	4.33	1.59	+2.74	58.76	57.18	+1.58	1.7	1.4	Rampore Benaulah	Rajshahye ...		
68	2.0	0.24	0.17	0.45	0.35	1.18	-0.83	40.35	56.54	-16.19	0.5	1.1	Maldah	Maldah ...	NORTH BENGAL.	
67	0.7	0.24	0.24	0.28	1.34	1.36	-0.02	58.87	59.91	-1.04	0.6	1.3	Dinapore	Dinapore ...		
67	0.7	0.24	0.24	0.28	1.34	1.36	-0.02	58.87	59.91	-1.04	0.6	1.3	Rungpore	Rungpore ...		
67	0.7	0.24	0.24	0.28	1.34	1.36	-0.02	58.87	59.91	-1.04	0.6	1.3	Julpigoree	Julpigoree Cooch Behar	NORTH BENGAL.	
67	0.7	0.24	0.24	0.28	1.34	1.36	-0.02	58.87	59.91	-1.04	0.6	1.3	Darjeeling	Darjeeling Hill Tracts		
67	0.7	0.24	0.24	0.28	1.34	1.36	-0.02	58.87	59.91	-1.04	0.6	1.3	Purneah	Purneah North Bhagulpore		
68	1.7	0.03	0.08	0.31	0.51	0.73	-0.42	49.23	46.74	+4.09	1.0	0.8	Mozufferpore	Mozufferpore ...	NORTH BENGAL.	
65	1.6	Nil	Nil	0.34	0.19	0.76	-0.57	52.36	46.18	+6.18	0.0	0.8	Durbhunga	Durbhunga ...		
61	1.7	Nil	Nil	0.56	Nil	1.04	-1.04	64.11	48.58	+15.53	0.0	1.0	Motihari	Chumpran ...		
60	1.4	0.03	Nil	0.15	0.02	0.29	-0.27	40.32	43.94	-3.62	0.0	0.4	Chupra	Saran ...	NORTH BENGAL.	
67	1.4	0.04	0.03	0.07	0.03	0.22	-0.19	40.22	41.13	-0.61	0.4	0.3	Dehree	Shahabad ...		
64	3.3	0.01	0.03	0.07	0.03	0.22	-0.19	40.22	41.13	-0.61	0.4	0.3	Buxar	...		
64	2.3	Nil											Arrah	...	SOUTH BENGAL.	
64	1.4	Nil	0.04	0.04	0.04	0.20	-0.25	37.38	42.71	-5.33	0.3	0.3	Gya	Gya ...		
63	2.6	0.01	0.02	0.10	0.04	0.27	-0.23	43.06	42.31	+1.75	0.5	0.3	Bankipore	Patna ...		
64	2.6	Nil	Nil	0.17	0.01	0.57	-0.06	43.04	44.58	-1.54	0.0	0.5	Bhagulpore	South Bhagulpore Mouhdyr	SOUTH BENGAL.	
64	1.4	Nil	Nil	0.33	0.75	0.88	-0.13	56.34	52.70	+2.64	0.0	0.9	Doomka	Sonthal Pergunnahs...		
67	2.9	Nil	Nil	0.08	Nil	0.31	-0.31	43.04	52.15	-8.31	0.0	0.4	Hazaribagh	Hazaribagh ...		
67	3.4	Nil	0.06	0.07	0.06	0.30	-0.33	46.60	51.04	-4.45	0.7	0.5	Ranchi	Lohardugga Maukboom	CHUTIA NAGPUR.	
67		Nil	0.20	0.23	0.23	0.81	-0.56	30.82	49.44	-9.92	0.0	0.7				
60	3.0	0.06	0.04	0.15	0.04	0.72	-0.68	40.85	54.35	-4.47	1.0	0.3	Chyebassa	Siugbhoom ...		
60	6.0	0.41											Sibsagor	...	ASSAM.	
67	2.7	1.02											Dhubri	Assam ...		
60	7.0	0.13											Silchar	...		

years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 2nd of May 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of April.	Average total rain-fall from 1st of April.	Total rain-fall since 15th May 1889.	Average rain-fall from 1st May date.
			Saturday, 29th April.	Sunday, 30th April.	Monday, 1st May.	Tuesday, 2nd May.	Wednesday, 3rd May.	Thursday, 4th May.	Friday, 5th May.	Number of rainy days.	of Rainfall week.				
ORISSA	Pooree	Pooree	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.04	82.03	27
		Khurda	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.09	0.08	81.00	26
		Banpur	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.05	0.58	79.08	21
		Pale Point	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	2.22	77.52	20
		Gop	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	?	?
		Satpura	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	?	?
		Pipit	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	?	?
	Cuttack	Jagatsingapore	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.72	76.19	40
		Banki	.....	.....	0.10	.....	.....	.....	.....	1	0.10	0.19	0.38	59.07	24
		Cuttack	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	1.43	77.58	23
		Kendrapara	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	1.10	73.62	24
		Jajpore	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.32	2.02	50.13	27
		Dharmasala	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.95	?	61.05	23
		Salipore	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	73.78	?
	Balasore	Chandbali	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	1.33	53.71	27
		Bhuddruck	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.89	2.00	61.71	26
		Scorah	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.53	2.29	48.41	24
		Balasore	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.88	2.78	49.88	26
		Jellapore	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	1.05	44.48	23
		Baripodah	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.77	1.09	57.61	27
SOUTH-WEST BENGAL.	Midnapore	Contai	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	1.54	57.53	29
		Saugor Island	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.02	57.02	27
		Tumlook	.....	0.10	.....	.....	.....	.....	.....	1	0.10	0.10	1.07	59.00	24
		Midnapore	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.67	2.68	47.83	23
		Ghattal	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.76	2.08	45.35	23
		Kurahaty	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	60.77	?
	24-Pergunnahs	Diamond Har- bour	.....	.....	.....	.....	.....	.....	.....	1	0.05	0.05	2.01	64.74	26
		Channing Towr	.....	0.04	.....	.....	.....	.....	.....	2	0.24	0.34	?	58.46	?
		Alipore Jail	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.92	2.01	54.29	24
		Barrackpore	.....	.....	.....	.....	.....	.....	.....	0.70	1	0.70	1.67	54.28	23
		Dum-Dum	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.84	2.33	66.04	27
		Baraset	.....	.....	.....	.....	.....	.....	.....	0.16	1	0.16	0.96	59.55	23
	Howrah	Buseerhat	.....	0.16	1.13	.....	.....	.....	.....	2	1.29	0.12	2.23	67.60	26
		Howrah	.....	.....	0.01	.....	.....	.....	.....	?	0.01	0.81	2.33	69.85	24
		Moheraka	.....	0.07	.....	.....	.....	.....	.....	1	0.07	0.09	2.21	55.58	24
		(Ooleberiah)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Serampore	.....	.....	.....	.....	.....	.....	.....	0.71	1	0.71	1.29	57.48	24
		Hooghly	.....	.....	.....	.....	.....	.....	.....	0.14	1	0.14	0.49	38.00	27
	Burdwan	Jehanabad	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.18	2.33	44.10	27
		Culina	.....	.....	.....	.....	.....	.....	.....	NH	NH	2.48	2.75	44.32	26
		Burdwan	.....	.....	0.02	.....	.....	.....	.....	1	0.02	1.34	2.05	49.24	23
		Cutwa	.....	0.0	.....	.....	.....	.....	.....	2	0.41	2.40	2.14	46.02	23
		Raneegunge	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.05	1.3	57.57	23
		Mankur	.....	.....	0.05	.....	.....	.....	.....	1	0.05	1.37	?	55.60	?
	Bankoora	Bankoora	.....	0.02	0.01	.....	.....	.....	.....	2	0.03	1.05	1.00	53.04	23
		Rishenpore	.....	.....	0.22	.....	.....	.....	.....	1	0.22	1.22	1.07	59.65	26
		Mallara	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.63	0.94	?	?
		Khatra	.....	.....	0.10	.....	.....	.....	.....	1	0.10	0.10	0.84	60.91	26
		Indas	.....	.....	.....	.....	.....	.....	.....	NH	NH	1.26	?	47.12	?
		Kotalpore	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.98	?	51.99	?
	Heerbhoom	Anda	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.50	?	41.34	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.48	?	60.82	?
		Kaipore	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	59.60	?
		Sonamukhi	.....	.....	0.08	.....	.....	.....	.....	1	0.08	1.19	?	54.87	?
		Hh. Soory	.....	.....	.....	.....	.....	.....	.....	NH	NH	1.30	1.10	60.85	26
		Hetampore	.....	.....	.....	.....	.....	.....	.....	NH	NH	2.45	1.20	50.21	24
	Nuddea	Rampore Haul	.....	.....	.....	.....	.....	.....	.....	0.12	1	0.12	0.42	48.00	24
		Halpore	.....	.....	.....	.....	.....	.....	.....	NH	NH	2.04	?	57.58	?
		Murari	.....	.....	.....	.....	.....	.....	.....	0.24	1	0.24	?	56.54	?
		Ranaghat	.....	.....	.....	.....	.....	.....	.....	NH	NH	1.40	3.22	58.03	23
		Kishnaghat	.....	.....	.....	.....	.....	.....	.....	NH	NH	1.40	2.93	44.55	23
		Choochanga	.....	0.77	.....	.....	.....	.....	.....	0.08	2	0.85	2.70	52.81	26
	Khoolna	Meherpore	.....	0.40	.....	.....	.....	.....	.....	0.15	2	0.55	2.30	55.74	26
		Kooshtea	.....	1.11	.....	.....	.....	.....	.....	1	1.14	5.81	3.24	60.53	26
		Satkira	.....	0.68	.....	.....	.....	.....	.....	0.11	2	0.79	4.53	59.05	26
		Bazirhat	.....	1.30	.....	.....	.....	.....	.....	0.01	2	1.07	2.95	58.41	26
		Khoolna	.....	0.30	.....	.....	.....	.....	.....	0.13	2	0.52	2.41	59.53	26
		Nakipore	.....	0.46	2.50	.....	.....	.....	.....	?	?	?	?	?	?
	Jessore	Rampore	.....	.....	.....	.....	.....	.....	.....	NH	NH	1.41	?	?	?
		Narail	.....	1.23	.....	.....	.....	.....	.....	0.34	2	1.63	4.04	57.03	23
		Jessore	.....	0.06	.....	.....	.....	.....	.....	0.87	2	0.93	4.31	68.00	26
		Jhemidiah	.....	.....	.....	.....	.....	.....	.....	0.44	1	0.44	2.33	53.27	26
		Magorah	.....	0.39	.....	.....	.....	.....	.....	0.37	2	0.76	4.28	61.87	26
		Bongong	.....	0.35	.....	.....	.....	.....	.....	1	0.35	2.04	3.97	49.95	26
	Moorshedabad	Kandi	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.32	1.77	56.90	26
		Berhampore	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.41	1.87	48.59	26
		Lalbagh	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.32	1.28	47.40	24
		Azimung	.....	.....	.....	.....	.....	.....	.....	0.20	1	0.20	1.39	?	?
		Jungipore	.....	.....	.....	.....	.....	.....	.....	NH	NH	2.09	1.19	57.43	26
		Lalgola	.....	.....	.....	.....	.....	.....	.....	NH	NH	4.60	1.54	67.66	26
EAST BENGAL	Chittagong	Jagunje	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.50	?	41.22	?
		Akhrigunj	.....	0.03	.....	.....	.....	.....	.....	1	0.03	1.48	?	44.53	?
		Patkabari	.....	.....	.....	.....	.....	.....	.....	NH	NH	2.85	?	?	?
		Cox's Bazar	.....	.....	.....	.....	.....	.....	.....	NH	NH	4.36	3.11	120.07	14
		Chittagong	.....	1.01	0.04	.....	.....	.....	.....	2	1.05	4.34	3.97	84.38	16
		Kutubdia	.....	0.20	.....	.....	.....	.....	.....	NH	NH	?	?	?	?
	Chittagong Hill Tracts.	Satkanya	.....	.....	.....	.....	.....	.....	.....	NH	NH	2.03	?	68.21	?
		Rangamati	.....	0.11	.....	.....	.....	.....	.....	1	0.11	4.08	4.59	73.58	?
	Backergunge	Ruma	.....	0.05	0.05	.....	.....	.....	.....	?	?	4.28	?	?	?
		Patnakhally	.....	.....	0.72	.....	.....	.....	.....	1	0.72	3.80	3.43	61.80	?
		Porosopore	.....	.....	0.14	.....	.....	.....	.....	1	0.14	2.27	3.03	76.02	?
		Barrisal	.....	.....	.....	.....	.....	.....	.....	1	0.05	5.10	3.83	79.10	?
	Bhola	Bhola	.....	0.03	.....	.....	.....	.....	.....	0.10	2	0.16	0.08	4.01	81.02

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 2nd of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of April.	Average total rainfall from 1st of April.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 28th April.	Sunday, 27th April.	Monday, 28th April.	Tuesday, 29th April.	Wednesday, 30th April.	Thursday, 1st May.	Friday, 2nd May.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noakhally	Gournadai	0.13										?		
		Baughal	0.13										?		
		Noakhally	0.14						0.22	2	0.36	5.84	5.02	111.51	117.28
	Farrakka	Fenny							0.43	1	0.43	6.07	5.66	88.32	117.57
		Harishpore													
		Ramganj		1.70				1.04		2	2.74	6.84		91.09	
	Dacca	Madaipore	0.16	1.10					0.70	3	1.96	7.15	4.16	70.83	63.61
		Furzedpore	0.10					0.72		1	0.82	2.40	3.30	70.64	64.91
		Goalundo	0.20					0.14		2	0.43	6.02	4.48	82.08	60.16
	Hill Tipperah	Munshigunge						1.05	0.02	2	1.07	5.62	5.57	85.20	79.59
		Dacca						1.05		1	1.05	7.38	4.98	89.64	67.54
		Naraingunge	0.16	0.04				1.54	0.11	4	2.13	7.22	5.20	89.48	69.27
	Tipperah	Manickgunge	0.16	0.03				0.09	0.03	4	0.93	6.74	4.50	77.40	57.65
		Joydebpore	0.23	0.03				0.16		3	1.22	7.60		76.62	
	Nasirnagar	Agartala						0.80		1	0.80	7.07	6.23	55.23	73.22
		Comilla	0.02	0.03			0.14	0.04	0.76	5	0.99	3.40	5.46	66.56	86.04
		Chandpore	0.10	1.25					1.10	3	2.45	6.82	5.04	73.59	83.97
	Daudkandi	Brahmunberia	0.14	0.04			0.04	0.28		4	0.50	4.96	6.10	50.94	78.89
		Ramchandrapore		0.06				0.19	0.39	3	0.64	3.56		65.05	
		Nasirnagar								Nil	Nil	13.50		51.29	
	Mymensingh	Daudkandi	0.50							1	0.50	1.71		55.44	
		Kasba						1.43	0.67	2	2.10	3.33		60.63	
		Laksham							1.75	1	1.75	6.17		78.50	
	Kishoreganj	Kishoreganj	0.85						0.15	2	1.00	4.12	5.70	77.93	79.79
		Atia (Tangail)	0.49							1	0.49	5.99	3.88	76.04	61.94
		Mymensingh	0.32						1.40	2	1.72	7.01	4.73	147.12	81.96
	Jalpaiguri	Jalpaiguri								Nil	Nil	3.30	3.38	94.48	70.69
		Naraingunge						0.15		1	0.15	3.59	5.50	134.93	81.25
		Subornakhal	1.40							1	1.40	7.11		65.31	
	Durgapore	Durgapore	0.30						0.20	1	0.50	4.34		156.46	
		Sherepore	1.07						1.07	1	1.07	10.35		90.21	
		Liwanganj							0.30	1	0.30	5.34		62.60	
NORTH BENGAL.	Pabna	Pabna	0.55							1	0.55	2.39	3.48	23.53	39.93
		Seraikunga	1.27							1	1.27	5.63	3.25	69.44	98.40
		Sherepore	1.40							1	1.40	3.02	1.80	63.72	61.61
	Rogra	Nowkhilla	1.25							1	1.25	3.54	2.27	67.62	53.33
		Rogra	0.58							1	0.58	3.62	2.72	78.54	63.00
		Panchbibi	1.69							1	1.69	3.61	1.30	70.00	50.03
	Rajshahi	Beaulah	0.10							1	0.10	3.35	1.43	40.69	55.98
		Nattor	2.55		0.65					2	2.55	8.11	2.54	67.08	59.25
		Naogaon	0.55					0.16		2	0.71	1.54	0.76	19.51	53.87
	Maldah	Lalpara						0.18		1	0.18	4.17		40.52	
		Manda								Nil	Nil	0.21		45.75	
		Maldah	0.34							1	0.34	0.46	1.05	51.26	54.00
	Dinapore	Chanchal								Nil	Nil	0.23	1.30	29.19	59.04
		Gajni								Nil	Nil	0.40		40.19	
		Sitganj								Nil	Nil	0.75		62.86	
	Dinapore	Mohadelpore						0.22		1	0.22	0.77	1.26	54.28	58.09
		Churamon								Nil	Nil	0.12	0.83	51.94	54.32
		Enaigunge								Nil	Nil	0.55	1.20	62.02	69.65
	Rungpore	Dinapore	1.74							1	1.74	5.48	2.07	71.81	66.95
		Raincorahat	0.72							1	0.72	1.74	1.65	63.64	53.45
		Thakorgang	1.02							1	1.02	2.49		90.30	
	Rajshahi	Banwanigunge	1.05			0.20				2	1.25	5.30	3.22	83.69	68.85
		(Gyabanda)													
		Rungpore	0.84		0.02					2	0.86	2.38	3.72	77.42	70.94
	Jalpaiguri	Kurigram	0.45							1	0.45	5.17	5.67	96.79	81.15
		Bagdoga	0.40							1	0.40	2.21	4.00	90.70	80.93
		(Nilphamari)								Nil	Nil	3.22		83.77	
	Ulupore	Ulupore								Nil	Nil				
		Jalpaiguri	1.22							1	1.22	6.24	4.05	129.69	123.74
		Alipore	0.55							1	0.55	9.29		128.87	
	Cooch Behar	Fallacotta	0.75							1	0.75	7.29		133.32	
		Debiganj	0.50							1	0.50	2.42		83.36	
		Rhagatpore	3.43		0.27	0.03				5	3.73	6.02		145.24	
	Darjeeling	(Nagarkatta)	0.72							1	0.72	6.85	4.87	105.71	103.36
		Dinhat	0.25							1	0.25	10.43	5.21	136.47	126.74
		Cooch Behar	1.21							1	1.21	4.44	4.44	126.84	122.04
	Hill	Mickilgunge								Nil	Nil	9.72	4.59	127.88	125.97
		Manabhang	0.33							3	0.49	7.58	9.64	126.04	123.54
		Buxa	0.05			0.15			0.78	2	1.73	5.14	3.26	126.16	126.67
	Kurseong	Siliguri	0.08		0.05	0.01				4	0.81	5.05	4.79	133.41	118.22
		Darjeeling	0.34		0.28	0.11				3	0.73	3.44	3.20	150.70	89.67
		Kurseong	0.08		0.70	0.22				5	1.10	2.49		72.72	
NORTH BHAR.	Purneah	Kisankunda	0.63							1	0.63	1.86	2.24	103.03	73.76
		Attareah								Nil	Nil	0.45	1.85	80.20	60.67
		Purneah								Nil	Nil	0.30	1.61	63.82	64.17
	Gondwara	Gondwara								Nil	Nil	0.02			
		Salarampore								Nil	Nil	0.10			
		Hettari								Nil	Nil				
	North Bhagulpore	Kaliaganj	1.87							1	1.87	3.13			
		Maddapore								Nil	Nil	0.76	1.25	61.71	51.74
		Soopool								Nil	Nil	0.67	1.12	68.03	53.08
	Durbhanga	Protogang								Nil	Nil	1.01		89.17	
		Tajpore								Nil	Nil		0.43	42.05	44.27
		Durbhanga								Nil	Nil	0.10	0.76	50.47	57.3
	Mozufferpore	Madhubani								Nil	Nil	0.49	1.12	64.10	60.8
		Rahera								Nil	Nil			70.09	
		Kashera								Nil	Nil			50.89	
	Mozufferpore	Sitamarhi		0.06	0.14					2	0.20	0.87	1.28	56.50	45.55
		Mozufferpore		0.04						1	0.04	0.64	0.61	45.03	47.04
		Hajipore								Nil	Nil		0.28	42.09	48.8
	Parsa	Parsa								Nil	Nil			47.80	
		Mahua								Nil	Nil			41.08	
		Bihar								Nil	Nil				
	Fupri	Fupri								Nil	Nil	0.24		46.72	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 2nd of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of April.	Average total rainfall from 1st of April.	Total rainfall since 16th May 1889.	Average rainfall from 16th May to date.
			Saturday, 26th April.	Sunday, 27th April.	Monday, 28th April.	Tuesday, 29th April.	Wednesday, 30th April.	Thursday, 1st May.	Friday, 2nd May.	Number of rainy days.	Rainfall of week.				
NORTH BEHAR—concluded.	Chumpran...	Motihari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.88	75.53	46.43	
		Bettiah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.10	52.09	50.16	
		Bagaha	0.06	0.02	0.03	Nil	Nil	Nil	Nil	3	0.71	0.71	?	71.15	?
		Burhura	Nil	0.01	Nil	Nil	Nil	Nil	1	0.01	0.01	?	51.94	?	
	Saran	Gopalgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	35.73	44.51	
Sewan		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	44.43	45.04		
Chuprah		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.05	40.90	41.52		
SOUTH BEHAR	Shahabad	Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	47.74	39.46	
		Dehree	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	55.02	41.08	
		Bhabua	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	38.61	42.25	
	Sasaram	0.12	Nil	Nil	Nil	Nil	Nil	Nil	1	0.12	0.12	0.23	30.43	42.45	
	Arrah	Nil	0.03	Nil	Nil	Nil	Nil	Nil	1	0.03	0.03	0.29	42.85	41.43	
	Mohania	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?	
	Gya	Aurangabad	0.16	Nil	Nil	Nil	Nil	Nil	Nil	1	0.16	0.16	0.24	35.78	42.86
		Gya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	40.20	43.55
		Nowadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	39.72	41.44	
			Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	33.77	41.09	
		Arwal	0.09	Nil	Nil	Nil	Nil	Nil	1	0.09	0.09	?	34.58	?	
		Daudnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	26.09	?		
		Sherrghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	29.20	?		
		Rajauli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	17.94	?		
		Pakri Barawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	31.90	?		
Patna	Patna	Patna	Nil	0.01	Nil	Nil	Nil	Nil	Nil	1	0.01	0.01	0.26	51.09	42.90
		Diunspore	Nil	0.06	Nil	Nil	Nil	Nil	Nil	1	0.06	0.06	0.38	45.39	42.42
		Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.10	41.39	42.11	
		Barrh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	36.03	40.73		
		Bickram	Nil	0.15	Nil	Nil	Nil	Nil	1	0.15	0.15	?	44.23	?	
		Hilsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	35.04	?		
Monghyr	Begoosera	Begoosera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.43	0.42	48.18	47.41	
		Monghyr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.01	0.44	47.78	47.33	
		Jamui	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.53	?	39.58	44.61
		Gogri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	59.19	?		
		Sheikpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.33	?		
South Bhagul-pore	Bhagulpore	Bhagulpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.64	0.80	45.12	43.83
		Banks	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.45	0.60	40.93	45.21
		Kolgong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	46.97	?	
		Bongson	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.35	?	?	?	
Sonthal Per-gunnahs.	Rajmehal	Rajmehal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.75	1.37	60.72	54.13	
		Godda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.66	0.66	49.77	48.99
		Pakour	0.02	Nil	Nil	Nil	Nil	Nil	Nil	1	0.02	1.21	0.58	75.04	56.33
		Nya Doonka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.32	1.29	58.42	55.91	
		Deoghur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	0.96	41.22	52.54	
		Jamtara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.51	0.76	46.67	50.26	
		Mohagama	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	?	56.05	?	
		Namihat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.76	?	57.03	?	
CHUTIA NAG-PUR.	Hasaribagh	Pachamba	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.67	50.24	49.48	
		(Giridi).	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.42	49.81	48.96	
		Hasaribagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	36.98	48.30	
			Semtaurab	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.12	49.23	49.23	
			Mahadi Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.40	43.40	
			Jhoomra Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	32.03	?	
			Barhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	47.09	?	
			Chatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.05	?	
			Karagdeha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
			Rampah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	
Lohardugga	Lohardugga	Lohardugga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	46.73	52.94	
		Ranchi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.61	56.23	54.98	
		Pala-naw	0.10	0.05	Nil	Nil	Nil	Nil	Nil	2	0.15	0.18	0.28	35.30	44.79
		Silli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	34.20	?		
		Balumat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.02	?	?	?	
		Hossinabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	44.79	?		
		Garwah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	29.43	?		
Singbhoom	Chyebasam	Chyebasam	Nil	0.04	Nil	Nil	Nil	Nil	1	0.04	0.04	0.73	49.88	54.97	
		Chakradhar-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?	
		Ghatilla	0.24	Nil	Nil	Nil	Nil	Nil	1	0.24	1.56	?	62.89	?	
		Baharagura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	57.37	?		
Manbhoom	Purulia	Purulia	Nil	0.01	Nil	Nil	Nil	Nil	1	0.01	0.47	0.53	44.96	51.90	
		Gobindpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.05	0.07	54.08	47.93	
		Raghunath-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	46.35	?	
		Barrabhoom	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?		
		Jhaida	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.82	?		
		Chas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.80	?		
		Chas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.38	?	50.42	?	

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 6th May 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 2ND
OF MAY 1890.

WEATHER has been more settled during the present week than for some time past, the only days when rain fell, beyond very scattered showers, being the first day of the week and again towards the end of the week in East and North Bengal. The most noticeable feature of the weather has been the very low temperature which prevailed on Saturday and Sunday, the 26th and 27th of April, which commencing in the north-west on the 26th gradually spread over the whole province. Some very low temperatures were reported from Behar on the morning of the 27th, from almost every station on the 28th, and from Sibsagar, Silchar, and Chittagong on the 29th. Pressure has on an average again been below the normal, but not to such an extent as during the previous week.

On Saturday the 26th the low-pressure area which had been gradually moving in an easterly direction was over the Sandheads, and as it had a widely extended influence on the wind circulation, giving westerly winds over the whole of Behar, and a cyclonic circulation at the head of the Bay, the abnormal temperature which was then commencing in Behar must have been due to its influence. Pressure was rising rapidly, but there was still a moderately large defect at the head of the Bay and at eastern stations. Temperature was falling, but was above the normal except in the west of Behar at some stations of which large defects had already appeared. Scattered showers fell in all districts, and with the exception of the Maldah and Dinagepore districts, general rain fell in North Bengal. On Sunday the 27th pressure continued to rise very rapidly in Orissa and briskly to rapidly over the western half of the province. Pressure was lowest in East Bengal, but the depression had almost disappeared; westerly winds, however, were blowing over the whole of Bengal and Orissa, and showers of rain fell in East Bengal and the eastern districts of South-West Bengal. On Monday normal conditions recommenced; pressure was falling briskly, but the distribution was very nearly normal. Rain practically ceased, a few scattered showers falling in South-West and North Bengal. Very low temperature then prevailed, but a rapid rise was setting in. During the remainder of the week very nearly normal conditions prevailed. Pressure oscillated about the normal; temperature was generally 2° to 4° above, and the wind circulation was what usually obtains at this season. The weather in East Bengal was slightly unsettled on Thursday and Friday, showers and a low temperature generally prevailing.

Pressure.—Has been, on an average for the week, everywhere below the normal, except in Behar and Chutia Nagpur. The largest difference is about a twentieth of an inch at some of the stations in East and North Bengal, but generally defect was not over two-hundredths of an inch.

Temperature.—As stated above, temperature conditions were very abnormal in the early part of the week. On the 27th, some of the minimum temperatures registered were—Chupra 61° , Arrah and Hazaribagh about 66° , and Dehree, Buxar, and Bhagulpore about 67° . On the 28th, Darjeeling reported 41.7° , Purneah 63° , and several other stations under 65° , while over almost the whole of Bengal temperature on the night of the 27th was under 70° . Defect amounted to ten or fifteen degrees at some stations, but it rapidly disappeared, and there was generally excess after the first two days. The means for the week are very nearly normal. In Chutia Nagpur there was defect of 3° , in Assam and Orissa excess of 1.5° and 1° respectively, while in the other districts excess did not exceed a few tenths of a degree.

Rainfall.—Frequent showers fell in the early part of the week in East and North Bengal and in the eastern districts of South-West Bengal. From Sunday till Thursday there was a period of dry weather, after which showers again commenced in the eastern districts. Over the western half of the province very scattered showers fell, and many districts have been rainless; these are Monghyr, Bhagulpore, Sonthal Pergunnahs, Hazaribagh, Manbhoom, Moorshedabad, and the greater part of Orissa. The mean falls for the large subdivisions are East and North Bengal 0.8 inch, South-West Bengal 0.3 inch, North Behar 0.05 inch, and the other districts one or two-hundredths of an inch. Rainfall has been everywhere deficient.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 2nd of May 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE										RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages of week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of April.		Since 15th May 1889.				
			Of highest of each day.			Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.				
			Of lowest of each day.	Of mean for each day.	Of highest of each day.															
Orissa	113'4	68'6	95'2	78'6	86'9	+1'0	0'01	0'35	-0'34	0'1	0'9	-0'8	0'21	1'44	64'73	56'88				
South-West Bengal ...	109'4	66'2	97'9	76'4	87'2	+0'2	0'31	0'84	-0'53	0'8	1'7	-0'9	1'68	2'31	55'06	56'77				
East Bengal	94'6	65'0	90'6	74'0	82'3	+0'6	0'79	1'79	-1'00	1'8	2'6	-0'8	5'45	4'60	84'05	82'77				
North Bengal	99'5	61'7	91'6	71'8	81'7	+0'3	0'79	1'13	-0'34	1'0	2'1	-1'1	3'71	2'82	77'57	75'01				
North Behar	105'2	60'9	95'1	72'3	83'5	+0'2	0'05	0'45	-0'40	0'3	1'0	-0'7	0'32	0'97	58'32	50'57				
South Behar	100'4	66'2	96'6	74'5	85'6	5'4	0'01	0'16	-0'15	0'2	0'7	-0'5	0'31	0'48	44'75	45'19				
Chutia Nagpur	102'5*	66'3*	94'7*	72'3*	83'6*	-3'4*	0'02	0'11	-0'09	0'2	0'8	-0'6	0'06	0'46	41'16	51'54				
Assam	92'6	65'8	88'0	71'3	76'3	+1'5														

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 6th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of April 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29.735		
The average pressure of April from 24 years' registers ...	29.752		
The highest pressure in the month	29.957	7th	10
The lowest pressure in the month	29.484	24th	16
The range of pressure	0.473		
<hr/>			
The total number of hours of bright sunshine during the month	239.7		
The maximum possible number of hours of sunshine ...	378.9		
<hr/>			
The mean temperature of the month	85.8		
The average temperature of April from 24 years' registers	84.7		
The highest temperature in the month	105.6	24th.	
The lowest temperature in the month	67.2	28th.	
The range of temperature during the month	38.4		
The mean daily range of temperature	18.6		
The greatest range of temperature in one day	30.1	28th.	
<hr/>			
The mean humidity of the month	71		
The average humidity of April from 24 years' registers ...	69		
<hr/>			
The mean vapour tension of the month	0.859		
The average vapour tension of April from 9 years' registers ...	0.861		
The mean cloud proportion of the month	2.46		
The average cloud proportion of April from 13 years' registers	2.63		
<hr/>			
The total rainfall of the month	1.00		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0.93		
The average fall of April from 48 years' registers...	2.81		
The greatest fall in 24 hours	0.96	21st.	
<hr/>			
The number of rainy days in the month	8		
The average number of rainy days in April from 24 years' registers	8		
<hr/>			
The mean maximum equilibrium temperature of solar radiation during the month	149.7		
The mean difference of sun and air temperatures	54.6		
The greatest sun temperature	155.8	14th.	
The greatest excess of sun over air temperature	59.8	20th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	72.4		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	4.3		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	7.0	1st.	
<hr/>			
The mean movement of the wind per day	157.4		
The greatest movement of the wind in one day	262.0	12th.	
The greatest movement of the wind in one hour	19.0	12th	1 to 2 P.M.
The number of hours with winds from each of the 8 points—			
N. 7, N.E. 11, E. 24, S.E. 60, S. 294, S.W. 243, W. 29, N.W. 11, Calm 41.			

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.2° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 5th May 1890.

For Meteorological Reporter to the Govt. of India,

**Results of the Meteorological Observations taken at the Alipore Observatory from
27th April to 3rd May 1890.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
April	27th	148.2	8.4	29.778	80.6	89.3	17.7	71.6	70.3	0.606	64.4	60	WNW and calm ...	114	0.01	Partially cloudy, o, d.
"	28th	151.6	10.5	.702	82.9	87.3	30.1	67.2	71.4	.619	65.0	59	W, SSW and calm ...	91	Nil	Chiefly clear, d.
"	29th	153.5	8.9	.673	87.5	100.8	22.6	78.2	77.9	.829	73.6	66	SSW and S ...	168	"	Partially cloudy.
"	30th	152.5	10.2	.685	88.3	98.7	22.0	76.7	79.9	.910	76.4	70	S, SSW and calm ...	80	"	Chiefly clear.
May	1st	150.5	9.6	.671	88.2	97.3	19.2	78.1	81.2	.975	78.5	74	SSW, SSE and calm ...	107	"	Partially cloudy, o, t, d.
"	2nd	152.5	9.5	.621	88.5	96.5	16.4	80.1	81.6	.986	78.8	74	SSE and SSW ...	133	0.03	Partially cloudy, t, <, d.
"	3rd	149.1	9.8	.610	87.6	95.8	15.3	80.5	79.6	.904	76.2	69	SSW and S ...	189	Nil	Partially cloudy.

The mean pressure of the seven days ...	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	...	...	...	29.716
The total number of hours of bright sunshine ...	...	...	...	Hours.
The maximum possible number of hours of sunshine ...	...	...	...	90.4
The mean temperature of the seven days ...	...	...	...	°
The average temperature of the corresponding period for 24 years, S.-G.'s Office ...	...	...	...	86.2
The extreme variation of temperature ...	...	...	...	85.6
The maximum temperature ...	...	...	...	33.6
				100.8
The highest velocity of the wind in one hour ...	...	...	...	Miles.
				18
The highest pressure of wind on one square foot ...	...	...	Approximately	lbs.
				2
The mean relative humidity ...	...	...	...	%
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ...	...	...	...	67
				71

The total fall of rain from 27th April to 3rd May 1890 ...	...	...	Inches.
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	...	...	0.04
The total fall from 1st January to 3rd May 1890 ...	...	...	0.77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	...	...	2.13
			5.23

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the traces of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, d drizzling rain, t thunder, < lightning, Δ dew, ⊕ lunar corona.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of April 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month ...	29.811	
The mean temperature at 10 A.M. during the month ...	89.4	
The highest temperature during the month ...	106.2	24th.
The lowest temperature during the month ...	68.9	28th.
The absolute range of temperature during the month ...	37.3	
The mean daily range of temperature during the month ...	19.6	
The greatest range of temperature in one day during the month ...	29.1	28th.
The mean 10 A.M. humidity during the month ...	66	
The mean 10 A.M. vapour tension during the month ...	.916	
The total rainfall of the month ...	0.75	
The greatest fall in 24 hours ...	0.60	22nd.
The number of rainy days in the month ...	3	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA,
The 5th May 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 27th April to 3rd May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall per 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
April 1890...	27th ...	29.845	82.3	92.0	19.4	72.6	88.6	72.6	.587	63.5	44	Nil
" "	28th ...	782	83.5	98.0	29.1	68.9	89.6	74.5	.652	66.5	47	"
" "	29th ...	786	90.4	102.0	23.2	78.8	92.6	79.5	.832	73.7	55	"
" "	30th ...	755	88.7	100.4	23.4	77.0	93.4	81.5	.915	76.4	58	"
May "	1st ...	741	88.9	99.0	20.2	78.8	93.1	83.5	1.019	79.8	66	"
" "	2nd ...	891	89.5	98.1	17.3	80.8	92.6	83.5	1.026	80.0	67	"
" "	3rd ...	670	89.6	98.0	16.8	81.2	91.6	82.5	.989	78.9	67	0.04

The mean 10 A.M. pressure of the seven days ...	29.746
The mean temperature of the seven days ...	87.6
The extreme variation of temperature ...	33.1
The maximum temperature ...	102.0
The mean 10 A.M. relative humidity of the seven days ...	58
The total fall of rain from 27th April to 3rd May 1890 ...	0.04
The daily mean temperatures are the crude means of maximum and minimum temperatures.	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 5th May 1890.

MEMORANDUM.

THE number of deaths registered during the month of February 1890 in 45 districts in Bengal amounted to 112,524, against 124,642 in the preceding month, 96,187 in February 1889, and an average of 98,255 in the corresponding months of the previous five years, 1885-89. These figures correspond to annual death-rates of 20.40, 22.68, 17.52 and 17.88, respectively. It will be seen that the death-rate for February 1890 was 2.28 less than that of the preceding month, but 2.88 in excess of the mortality of February 1889, and 2.52 in excess of the average rate of the corresponding month of past five years, 1885-89.

2. The highest death-rates were returned from the following districts. The rates of the corresponding month of 1889 are also given for the purpose of comparison:—

Districts.	Ratio per mille during—		Districts.	Ratio per mille during—	
	Feb. 1890.	Feb. 1889.		Feb. 1890.	Feb. 1889.
Poori	45.36	19.44	Dinajpur	27.60	25.68
Cuttack	34.92	13.44	Hughli	27.24	22.20
Noakhali	34.56	27.00	Howrah	26.64	22.20
Julpaiguri	30.00	24.60	Balasore	26.04	22.68
Darjiling	29.16	21.48	Chittagong	25.44	20.28
Backerganj	27.84	27.84	Midnapore	25.20	21.36

3. The following table compares the rates of mortality under the several registered death-causes during the three periods, February 1890, 1889, and the average for that month of the past five years, 1885-89:—

	Ratio per mille during—		
	February 1890.	February 1889.	Mean of previous five years, 1885-89
Cholera	1.44	.84	.96
Small-pox	.12	.12	.10
Fever	14.64	12.72	13.08
Bowel-complaints	.72	.48	.60
Injury	.12	.12	.12
Other causes	3.12	3.00	2.76

The only noticeable point indicated by the above figures is that cholera and fever were more fatal in February 1890 than in either of the past periods with which that month is compared.

4. The districts in which the greatest loss of life occurred from cholera and fever were—

Cholera.		Fever.	
	Ratio per mille.		Ratio per mille.
Poori	10.20	Julpaiguri	28.44
Cuttack	7.56	Noakhali	26.40
Faridpore	4.66	Dinajpur	26.16
Noakhali	4.44	Rungpore	23.28
Tipperah	4.08	Darjiling	23.04
Howrah	3.60	Rajshahye	20.04
Midnapore	3.24		
Dacca	3.00		
Backerganj	2.64		
24-Pergunnahs	2.40		

Small-pox and "Other causes" prevailed with marked severity only in the Poori district (mortality 2.88 and 20.28 per 1,000 of population respectively).

5. The mortality of the month, according to sex, class and age, was as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	22.44	Christians	13.68	Under 1 year	140.76
Females	18.48	Hindus	20.52	1 and under 5 years	18.24
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	121	Mahomedans	20.88	5 " 10 "	8.40
		Buddhists	21.36	10 " 15 "	7.68
		Other classes	13.44	15 " 20 "	12.24
				20 " 30 "	12.96
				30 " 40 "	15.48
				40 " 50 "	22.08
				50 " 60 "	33.00
				60 years and upwards	60.96

Detailed information regarding the mortuary statistics of the 45 districts in Bengal dealt with in the above summary will be found in the statement appended.

The 3rd May 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

DIVISIONS.		DISTRICTS.		POPULATION.		DEATHS FROM—										DISEASE.					RATIO PER 1,000 OF POPULATION PER ANNUM.		SEX.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such male tally bears to the total male and female population.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
						Cholera.		Small-pox.		Fever.		Bowel-complaint.		Injury.		Other diseases.		All causes.		Cholera.		Small-pox.		Fever.		Bowel-complaint.		Injury.		Other diseases.		All causes.		COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
						Cholera.		Small-pox.		Fever.		Bowel-complaint.		Injury.		Other diseases.		All causes.		Cholera.		Small-pox.		Fever.		Bowel-complaint.		Injury.		Other diseases.		All causes.		Ratio of deaths per 1,000 of population in the previous month.		Ratio of deaths per 1,000 of population in the corresponding month of the previous year.		Males.		Females.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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W. H. GREGG, Dip. Publ. Health, Camb.,

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 19th April 1890

BIRTHS.

The births registered during the week ending with Saturday, the 19th April 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 17 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·8 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	25·0	19·5	19·2	20·3	19·9	20·8	17·0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	29th March 1890.	5th April 1890.	12th April 1890.	19th April 1890.		29th March 1890.	5th April 1890.	12th April 1890.	19th April 1890.
Burdwan	24·4	25·9	10·7	30·5	Narainganj	16·6	20·7	24·8	41·4
Midnapore	26·3	10·8	10·8	15·5	Chittagong	9·4	4·7	9·4	2·3
Hughli and Chinsurah	23·0	23·0	24·6	24·6	Comillah	23·1	50·1	...	11·6
Serampore	41·2	33·4	11·8	37·3	Patna	15·3	6·8	13·0	7·8
Uttarpara	28·3	9·4	...	16·9	Gya	19·1	16·4	19·1	16·7
Howrah	19·5	12·6	14·3	17·8	Arrah	23·9	13·2	10·8	14·4
Bali	17·5	7·0	14·0	10·5	Mozufferpore	13·4	9·7	13·2	13·4
Kishnagar	24·6	9·5	18·9	22·7	Durbananga	18·1	18·1	22·0	21·2
Banaghat	...	18·0	29·9	24·0	Chupra	14·1	14·1	2·0	9·1
Santipore	29·8	14·0	17·4	3·5	Bhagulpore	13·6	10·9	14·5	21·7
Jessore	18·4	12·2	18·4	18·4	Monghyr	26·2	20·8	17·2	25·3
Rampore Beaulah	21·0	20·5	23·6	31·5	Purneah	27·7	13·9	17·3	24·2
Darjiling	27·0	14·8	14·8	14·8	Poori	29·4	12·6	16·8	21·0
Dacca	20·8	8·4	14·9	15·6					

It will be seen that last week the highest birth-rate was returned from Narainganj (41·4) and the lowest from Chittagong (2·3).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 29·2 per 1,000 of the population. The rate of the week is 4·3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, — *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	34·1	22·9	21·6	24·6	21·2	24·9	29·2

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	29th March 1890.	5th April 1890.	12th April 1890.	19th April 1890.		29th March 1890.	5th April 1890.	12th April 1890.	19th April 1890.
Burdwan	24·4	27·5	32·0	29·0	Narainganj	8·3	8·3	41·4	12·4
Midnapore	38·7	12·4	34·1	29·1	Chittagong	7·0	4·7	9·4	9·4
Hughli and Chinsurah	37·7	52·8	60·7	63·8	Comillah	46·2	27·0	19·3	11·6
Serampore	17·7	37·3	31·4	47·1	Patna	17·5	11·4	23·9	39·6
Uttarpara	28·3	56·0	28·3	...	Gya	66·3	79·2	61·5	44·4
Howrah	14·5	22·9	21·8	20·9	Arrah	16·7	9·6	12·0	28·7
Bali	21·6	31·6	24·6	21·1	Mozufferpore	17·0	13·4	12·2	18·2
Kishnagar	5·7	7·6	17·0	11·4	Durbananga	25·2	17·3	18·1	28·3
Banaghat	24·0	6·0	15·0	6·0	Chupra	11·1	12·1	2·0	9·1
Santipore	8·8	10·5	8·7	5·5	Bhagulpore	19·9	8·1	21·5	29·9
Jessore	12·2	18·4	6·1	42·8	Monghyr	9·9	23·5	88·0	28·9
Rampore Beaulah	21·0	34·2	39·4	38·8	Purneah	34·6	17·3	31·2	34·6
Darjiling	44·5	29·6	74·1	29·3	Poori	39·9	39·9	58·7	53·7
Dacca	22·7	13·0	22·1	15·6					

It will be seen that last week the highest mortality occurred in the town of Darjiling (59·3) and the lowest in Santipore (3·5). No deaths were registered during the week in Utterpara town.

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Small-pox.</i>		<i>Fever.</i>	<i>Other causes.</i>		
	Ratio per mille.		Ratio per mille.		Ratio per mille.	Ratio per mille.	
Hughli and Chinsurah...	31·2	Poori ...	16·8	Darjiling ...	51·9	Serampore ...	19·6
Patna City ...	14·3	Howrah ...	4·6	Gya ...	37·6	Poori ...	12·5
Howrah ...	9·7			Purneah ...	31·2	Bhagulpore ...	10·0
Dacca ...	5·8			Arrah ...	23·9	Monghye ...	9·9
Mozufferpore ...	4·9			Durbhanga ...	22·8		
				Rampore Beaulah ...	21·0		
				Poori ...	21·0		

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5· from cholera, against 3·2 per 1,000 in the preceding week; 1·6 from small-pox, against 1·; 14·6 from fever, against 14·7; 2·4 from bowel-complaints, against 2·2; 2 from injury, against the same ratio; and 5·2 from other causes, against 5·8 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	30·5	Christians ...	29·9	Under 1 year	159·8
Females ...	27·8	Hindus ...	30·0	1 and under 5 years	36·9
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	109	Mahomedans ...	27·4	5 " 10 "	17·4
				10 " 15 "	11·3
				15 " 20 "	18·0
				20 " 30 "	19·5
				30 " 40 "	19·6
				40 " 50 "	26·2
				50 " 60 "	41·6
				60 years and upwards	75·9

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 5th May 1890.

DISTRICTS.		NAMES OF MUNICIPALITIES.		POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—										Sex.		Ratio of male deaths to the total mortality bears, calculated on the proportion of male and female population.																																										
				Males.		Females.		Total.		Ratio per 1,000 of population per annum.			Disease.																																																			
													Deaths from—																																																			
													Ratio of deaths per 1,000 of population per annum.																																																			
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
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Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
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Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	
Males.		Females.		Total.		Males.		Females.		Total.		Ratio of male births to every 100 female births.		All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			All causes.			Other diseases.			Injury.			Bowel-complaints.			Fever.			Small-pox.			Cholera.			Ratio of deaths per annum in the previous week.			Males.		Females.		Ratio per 1,000 of population per annum.	

DISTRICTS.		NAMES OF MUNICIPALITIES.		Class.										Age.										RATIO PER 1,000 OF POPULATION PER ANNUM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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				Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Burdwan	Burdwan	16	36.1	18.2	2	4	127.6

W. H. GREGG, Dip. Publ. Health, Camb.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 3rd May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 3RD MAY 1890.			WEEK ENDING SATURDAY, THE 4TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	189	40,155	560	163	42,585	601
Jute ...	32	23,950	428	1	200	3
Firewood ...	79	34,175	527	77	31,475	463
Other articles ...	681	1,97,925	2,468	635	1,17,670	1,801
Total ...	981	2,96,205	3,983	776	1,91,930	2,888

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	265,121	2,90,064 5 0	28,15,782 10	6,90,429 5 0	29,976 9 0	10,01,418 3 0	68,351½	104,425½	172,777
Or per mile of railway ...	...	190 2 3	...	452 9 6	13 11 6	636 7 3	...	...	...
For previous 16 weeks of half-year ...	4,118,742	46,90,554 2 0	4,20,80,289 0	97,58,735 11 0	3,17,438 0 9	1,47,66,757 13 9	1,046,754½	1,532,123½	2,578,878½
Total for 17 weeks ...	4,383,863	49,80,646 7 0	4,49,05,071 10	1,04,49,165 0 0	3,38,364 9 9	1,57,68,176 0 9	1,115,106	1,636,554½	2,751,660½
COMPARISON.									
Total for corresponding week of previous year ...	273,304½	2,81,771 3 5	30,23,688 30	6,46,437 10 8	31,217 11 8	9,49,426 9 9	65,542	102,577	168,119
Per mile of railway correspond- ing week of previous year ...	...	184 11 4	...	423 12 1	13 14 6	622 5 11	...	...	...
Total to corresponding date of previous year ...	4,517,330½	51,81,673 6 2	4,74,80,598 0	1,03,39,474 2 2	2,78,776 7 9	1,57,89,926 0 1	1,123,867	1,643,509	2,767,376

*Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	2,49,427	622	1,525½	10,01,418	656	1,525½	36,64,043	600	1,525½	33,90,588	590	.....	64,455

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 26th April 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,315	6,264 0 0	57,954	4,405 2 0	40 5 0	10,809 7 0	1,492	902	2,394
Or per mile of railway ...	233½	111 4 2	1,013 10	77 0 2	0 11 3	188 15 7	.....	.....	.....
For previous 16 weeks of half-year ...	215,136	1,10,418 15 0	7,75,535 20	48,640 6 0	617 7 0	1,50,076 12 0	27,006½	11,145	38,151½
Total for 17 weeks ...	228,451	1,16,782 15 0	8,33,540 0	53,045 8 0	657 12 0	1,70,486 3 0	28,498½	12,047	40,545½
COMPARISON.									
Total for corresponding week of previous year ...	12,72½	5,429 4 8	75,081 20	3,326 5 0	21 0 3	8,976 9 11	1,627	767	2,394
Per mile of railway corresponding week of previous year ...	210½	94 14 8	1,323 10	61 10 5	0 5 10	156 14 11	.....	.....	.....
Total to corresponding date of previous year ...	248,014	1,35,182 7 8	6,98,602 20	41,065 13 0	1,375 0 0	1,77,508 4 3	30,733	11,450	42,183

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,977	157	57½	10,809	189	57½	39,999	175	57½	41,856	183	1,857	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,472	6,018 2 0	14,105 0	472 11 0	10 2 0	6,500 15 0	883	55	938
Or per mile of railway ...	.....	271 13 3	.....	21 3 11	0 7 3	293 8 5	.....	.....	.....
For previous 16 weeks of half-year ...	338,410	96,709 4 0	2,34,063 30	7,881 11 0	167 3 0	1,04,818 2 0	14,185	1,602	15,787
Total for 17 weeks ...	358,882	1,02,817 6 0	2,44,188 30	8,334 6 0	177 5 0	1,11,340 1 0	15,068	1,747	16,815
COMPARISON.									
Total for corresponding week of previous year ...	21,106½	5,441 14 4	11,358 0	431 8 0	4 14 0	5,878 4 4	907	61	968
Per mile of railway corresponding week of previous year ...	.....	244 9 3	.....	19 6 4	0 3 6	264 3 1	.....	.....	.....
Total to corresponding date of previous year ...	400,758	1,06,054 8 6	1,62,972 20	5,891 11 0	118 2 0	1,12,064 5 6	15,696	1,046	16,742

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,878	264	22½	6,531	294	22½	30,599	347	22½	30,064	338	.....	815

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., Dacca, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 19th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	142,030	74,080 0 0	5,58,190 0	87,020 0 0	16,000 0 0	1,77,700 0 0	22,997	20,538	52,530
Or per mile of railway...	190	99 0 0	747 0	117 0 0	23 0 0	219 0 0	...	...	...
For previous 15 weeks of half-year...	2,403,130	11,78,929 0 0	80,30,920 0	15,77,089 0 0	2,89,034 0 0	*30,45,052 0 0	336,454	445,306	780,165
Total for 16 weeks...	2,545,160	12,53,009 0 0	81,89,110 0	16,64,709 0 0	3,05,034 0 0	32,22,753 0 0	359,451	472,842	832,693
COMPARISON.									
Total for corresponding week of previous year...	124,541	64,863 0 0	5,22,103 0	74,072 0 0	12,948 0 0	1,52,785 0 0	21,335	23,685	45,020
Per mile of railway corresponding period of previous year...	185	96 0 0	776 0	111 0 0	†1 0 0	208 0 0	...	...	...
Total to corresponding date of previous year...	2,385,129	12,17,207 0 0	79,38,142 0	13,38,831 0 0	2,78,564 0 0	28,41,602 0 0	343,756	589,473	733,231

* Audited up to week ending 1st March 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,52,785	227	747	1,77,700	238	673	4,39,094	217	747	4,60,148	214	41,054	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	23,150	8,920 0 0	36,570 0	2,590 0 0	170 0 0	11,480 0 0	3,735	1,937	5,672
Or per mile of railway...	185	72 0 0	292 0	19 0 0	1 0 0	92 0 0	...	...	...
For previous 15 weeks of half-year...	417,300	1,40,114 0 0	7,16,230 0	47,121 0 0	733 0 0	*1,08,988 0 0	54,432	28,450	82,882
Total for 16 weeks...	440,510	1,55,034 0 0	7,52,750 0	49,511 0 0	923 0 0	2,08,468 0 0	58,167	30,387	88,554
COMPARISON.									
Total for corresponding week of previous year...	25,926	9,005 0 0	43,520 0	3,054 0 0	61 0 0	12,118 0 0	3,679	1,937	5,616
Per mile of railway corresponding period of previous year...	207	72 0 0	348 0	24 0 0	1 0 0	97 0 0	...	...	...
Total to corresponding date of previous year...	457,642	1,60,322 0 0	887,345 0	48,444 0 0	4,517 0 0	2,13,483 0 0	58,691	30,488	89,179

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
126	12,118	97	125	11,480	92	125	36,742	95	125	33,906	91	.....	1,776

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,890	5,400 0 0	17,080 0	1,876 0 0	130 0 0	6,406 0 0	2,480	694	3,174
Or per mile of railway ...	162	63 0 0	199 0	21 0 0	2 0 0	81 0 0	.....	.....	.....
For previous 15 weeks of half-year ...	263,420	90,901 0 0	3,09,070 0	38,488 0 0	2,456 0 0	*1,31,845 0 0	36,138	10,852	46,990
Total for 16 weeks ...	277,310	96,301 0 0	4,16,150 0	39,858 0 0	2,586 0 0	1,35,905 0 0	38,618	11,476	50,094
COMPARISON.									
Total for corresponding period of previous year ...	12,303	4,289 0 0	12,625 0	669 0 0	65 0 0	5,023 0 0	2,479	625	3,104
Per mile of railway corresponding period of previous year ...	144	50 0 0	147 0	8 0 0	.....	58 0 0	.....	.....	.....
Total to corresponding date of previous year ...	254,001	78,020 0 0	1,90,000 0	16,281 0 0	2,804 0 0	96,805 0 0	39,695	10,716	50,411

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,023	58	86	6,970	81	86	14,148	55	86	20,640	80	6,492	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,252	1,124 0 0	7,792 0	554 0 0	17 0 0	1,695 0 0	509	254	763
Or per mile of railway ...	119	41 0 0	283 0	20 0 0	1 0 0	62 0 0	.....	.....	.....
For previous 15 weeks of half-year ...	51,954	18,662 0 0	2,15,368 0	12,926 0 0	1,407 0 0	32,995 0 0	7,926	7,795	15,721
Total for 16 weeks ...	55,186	19,786 0 0	2,23,160 0	13,480 0 0	1,424 0 0	34,690 0 0	8,435	8,049	16,484
COMPARISON.									
Total for corresponding week of previous year ...	2,794	1,005 0 0	5,323 0	400 0 0	9 0 0	1,469 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	103	36 0 0	196 0	15 0 0	.....	54 0 0	.....	.....	.....
Total to corresponding date of previous year ...	56,937	21,668 0 0	1,93,781 0	11,606 0 0	1,424 0 0	34,038 0 0	8,607	7,757	16,364

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,469	54	27½	1,695	62	27½	6,398	58	27½	6,462	59	64	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th April 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	44,977	16,971 0 0	2,30,625 0	26,807 0 0	2,948 0 0	46,726 0 0	5,422	7,800	13,312
Or per mile of railway ...	165	62 0 0	845 0	98 0 0	4 0 0	164 0 0*	.....	.....	.....
For previous 15 weeks of half-year ...	748,297	3,09,261 0 0	41,31,551 0	4,71,326 0 0	49,178 0 0	8,29,765 0 0	81,288	152,561	233,849
Total for 16 weeks ...	793,274	3,26,232 0 0	43,62,176 0	4,98,133 0 0	52,126 0 0	8,76,491 0 0	86,710	160,451	247,161
COMPARISON.									
Total for corresponding week of previous year ...	44,453	15,721 0 0	1,96,458 0	17,580 0 0	3,797 0 0	37,098 0 0	4,536	6,171	10,707
Per mile of railway corresponding week of previous year ...	163	58 0 0	720 0	64 0 0	1 0 0	123 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	724,606	2,75,169 0 0	23,80,083 0	2,26,828 0 0	56,249 0 0	5,55,177 0 0	59,856	92,471	152,327

* Steam-boat earnings are excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	37,098	136	273	46,726	171	273	1,40,798	134	273	1,83,672	168	37,874	.....

[REGISTERED No. 29.]

No. 20 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 14, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT.

Calcutta, the 17th April, 1890.

RESOLUTION.

THE rules sanctioned last year under Bengal Act I of 1889 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next:—

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholera hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depôt from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractors or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

Rules to be issued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 10th May 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.	
BENGAL.				
Western Districts.				
BURDWAN DIVS.	1 Burdwan May 10, '90	Nil	Weather—hot and occasionally cloudy and windy. Agricultural operations impeded for want of rain. Prospect of <i>til</i> and sugarcane not good. Prices of common rice:—	
	Culna ...	0.41		
	Cutwa ...	0.40		
				Srs. Burdwan ... 18 Culna ... 15 Cutwa ... 15½ Ranigunge ... 17½ } per rupee.
	2 Bankoora .. 10, '90	Nil	Weather—very hot. Fields are being prepared for rice sowing. Cotton being gathered in the Bishenpore subdivision; outturn 10 annas. Other standing crops doing well. Common rice 20 seers per rupee at Sudder and 18½ seers at Bishenpore.	
	3 Birbhum .. 10, '90	Nil	Weather—hot. Nothing to report as regards crops. Prices range from 16 to 20 seers of common rice per rupee.	
	Rampore Haut ...	0.12		
	4 Midnapur .. 10, '90	Nil	Weather—hot. Rain wanted for ploughing. Prices of common rice:—	
			Srs. Sudder ... 18 Contai ... 20 Ghatal ... 16 Tamluk ... 17 } per rupee.	
	5 Hooghly .. 10, '90	Nil	Weather—sultry with high winds from the south in the evening. Rain wanted. The sugarcane crop is estimated at 12 annas. Prices of common rice:—	
			Srs. Sudder ... 14 Serampore ... 16 Jehanabad ... 16 } per rupee.	
	Howrah .. 10, '90	Nil	<i>Boro</i> paddy reaped with about 4 annas outturn. Rain wanted for ploughing. Common rice 12 seers per rupee.	
	Central Districts.			
	PRESIDENCY DIVS.	6 24-Parghs. May 13, '90	Nil	Weather—very hot. Sowing of early rice and jute going on, but rain very much wanted. Sugarcane doing well. Price of common rice stationary.
		7 Nudda .. 10, '90	0.03	Weather—very hot. A severe storm at Newpara in the Kushtia subdivision. Sowing of early rice going on, but retarded in some places for want of rain. Rain very much wanted.
		Chuadanga ...	0.11	
		Meherpore ...	0.15	
8 Khoolna .. 10, '90		1.02	Weather—very hot. Cultivation going on in the Sudder subdivision, but more rain wanted in Satkhira. Reaping of <i>boro</i> nearly completed.	
Satkhira ...		0.11		
9 Jessore .. 10, '90		Nil	Weather—very hot with occasional clouds and strong south winds. Sowings of paddy, jute, and indigo continue, but more rain wanted.	
Jhenidah ...		0.54		
Magura ...		0.37		
Narail ...		1.10		
10 Moorshedabad .. 10, '90		Nil	Heat above normal. Rain much needed for <i>bhadoi</i> sowings. There has been a little <i>bhadoi</i> sowing in the Jungipore and Sudder subdivisions.	
Lalbagh ...		0.30		
Jungipore ...		0.06		
11 Dinagepur .. 10, '90		1.75	Weather—changeable. Prospects of crops continue good. Prices of rice both at Sudder and Thakurgaon stationary.	
Thakurgaon ...		4.81		
RAJSHAHY DIVS.		12 Rajshahye .. 10, '90	Nil	Weather—hot. Clouds passing to and fro and rain expected. Jute sowing continues. Ploughing for winter paddy going on. Prices stationary.
		Nattore ...	0.35	
	Nowgong ...	1.52		
	13 Rungpur .. 10, '90	3.52	Weather—extremely sultry with westerly winds. Prospects generally favourable. The young paddy is coming up magnificently. Jute sowings are daily progressing.	
	Kurigram ...	1.55		
	Nilphamari ...	0.89		
	Gaibanda ...	3.52		
	14 Bogra .. 10, '90	0.08	Weather—sultry, and sometimes stormy. Sowing of <i>aus</i> rice and jute going on, but in most places finished and seedlings doing well. Jute sown over about 9 annas of the usual area. Common rice selling at 18 seers per rupee.	
	Sherpur ...	0.38		
	Nowkhilla ...	3.24		
	15 Pabna .. 10, '90	Nil	Weather—hot. Sowing of paddy and jute in the Serajgunge subdivision finished. Crops on low lands doing well. Sowing continues in other parts. Price of common rice 13 to 14 seers per rupee.	
	16 Darjeeling .. 10, '90	0.73	Weather—fair. Crops doing well. In Terai <i>bhadoi</i> paddy, jute, and sugarcane are still being sown. Prospects generally good.	
	17 Julpigoree .. 10, '90	0.28	Weather—hot and sometimes cloudy. Sowing of <i>bhadoi</i> paddy and jute progressing rapidly. Prospects satisfactory. Prices stationary.	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
DACCA DIVN.	18 Dacca May 10, '90	Nil	Weather—very hot and fine. Slight rain in Manickgunge and Munshigunge. Sowing of rice and jute going on. Boro paddy nearly harvested. Common rice sold at from 13 to 16 seers per rupee during the week.
	19 Furreedpur „ 10, '90	Nil	Weather—hot. <i>Jali dhan</i> is being reaped with an average outturn of 12 annas. State of standing crops fair, but rain badly wanted. Price of common rice varies from 13 seers in Sudder to 16 seers in Goalundo.
	20 Backergunge „ 10, '90	Nil	Weather—hot and cloudy. Prospects of crops generally fair, but in some places want of rain is much felt. Common rice selling at from 12 to 16 seers per rupee.
	21 Mymensingh „ 10, '90	0.08	Weather—very hot. Strong wind blowing at present. Prospects of crops good. Common rice sells at 13 seers 10 chittacks per rupee.
CHITTAGONG DIVN.	22 Chittagong „ 10, '90	Nil	Weather—hot. The chilly crop is excellent. Sowing of <i>aus</i> paddy is in progress, but ledá worm (probably the mole cricket) is reported to have appeared in thannahs Patia, Hathazari, and Fattickchurry. Price of rice stationary.
	23 Noakholly „ 10, '90	Nil	Weather—very saltry. Sowing of <i>aus</i> crop going on. Rain badly needed. About 12 annas of <i>rubbi</i> crop have been gathered. Price of rice stationary.
	24 Tipperah „ 10, '90	0.03	Weather—unusually warm. Rice, jute, and <i>til</i> thriving. Prospects good. Rain wanted.
	25 Chittagong Hill Tracts. „ 9, '90	0.37	Weather—very hot throughout the week. A heavy shower of rain on the 7th. <i>Jam</i> burning still continues in some places, where it was retarded by rain. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice being sold at 13 seers 5½ chittacks per rupee.
BEHAR.			
PATNA DIVN.	Hill Tipperah ...	...	Report not received.
	26 Patna „ 10, '90	Nil	Weather—hot and dry; west wind prevails. Prospects of <i>cheena</i> and other crops standing on the ground favourable, but rain will do good. Prices rising.
	27 Gya „ 10, '90	Nil	Weather—hot. Prospects of <i>cheena</i> and sugarcane favourable. Prices of food-grains almost stationary.
	28 Shahabad „ 10, '90	Nil	Weather—very hot with west winds. Harvest of <i>cheena</i> proceeding. Sugarcane being irrigated. Standing crops good and prospects favourable.
BHAGULPORE DIVN.	29 Durbhunga „ 10, '90	Nil	East wind prevailing. Threshing of <i>rubbi</i> nearly over. Paddy, <i>mung</i> , and indigo doing well, but rain much wanted. Prices rising.
	30 Mozufferpur „ 10, '90	Nil	Wind changeable, heat considerable. Rain very much wanted. Paddy, <i>mung</i> , and <i>cheena</i> still being sown in places.
	31 Sarun „ 10, '90	Nil	Weather—hot; wind variable. Indigo prospects indifferent except in the north and west. <i>Cheena</i> good.
	32 Chumparun „ 10, '90	Nil	Weather—hot. Paddy is being sown. <i>Cheena</i> and <i>kodo</i> growing, but want rain. Preparation of land for sowing of <i>bhadoi</i> crops going on. Opium weightment almost finished.
BHAGULPORE DIVN.	33 Monghyr „ 10, '90	Nil	Weather—very hot and dry; wind variable. No crop to report on. Rain urgently wanted for the preparation of lands for <i>bhadoi</i> crops. Prices almost stationary.
	34 Bhagulpur „ 10, '90	Nil	Weather—very hot; winds easterly. Sugarcane and indigo doing well. Want of rain retards cultivation of <i>bhadoi</i> . Rain badly wanted.
	35 Purneah Kissengunge „ 10, '90	0.95	Weather—hot with easterly winds and also cloudy. Jute, sugarcane, and <i>bhadoi</i> crops being sown. Rain, which is wanted, would be beneficial to the crops generally.
	36 Maldah Chanchal Gajole „ 10, '90	0.82 0.12	Weather—hot and oppressive; evenings cloudy and windy. Harvesting of <i>boro</i> paddy continues. Sowings of <i>bhadoi</i> and winter rice going on. These crops suffering much for want of rain. Prospects of other standing crops fair. Prices of common rice stationary.
BHAGULPORE DIVN.	37 Sonthal Pergas. Pakour Rajmehal „ 10, '90	Nil 0.45 0.07	East wind at first; now westerly wind. Weather hot and seasonable. Slight rain in parts, but more wanted everywhere for sugarcane and to assist agricultural operations. Boro paddy being reaped in Rajmehal. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack May 13, '90	Nil	Ploughing going on, but with difficulty for want of rain.
	39 Pooree „ 9, '90	Nil	Weather—hot. Lands are being manured for the ensuing <i>sarad</i> crop. In the Sudder subdivision harvesting of <i>dalua</i> crop nearly over, but still continues in the Khoorda subdivision. Price of common rice stationary.
	40 Balasore „ 10, '90	Nil	Weather—very hot and dry. Cotton and sugarcane doing well. <i>Dalua</i> rice being harvested. Rain wanted. Number of coolies on relief works 136.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIV.	41 Hazaribagh May 10, '90	Nil	Weather—seasonable, very hot. Sugarcane and mango doing well. <i>Mohua</i> has yielded from 8 to 12 annas. No other crops.
	42 Lohardugga „ 10, '90	Nil	Weather—hot and seasonable. <i>Mohua</i> gathering nearly finished. Sugarcane and mango doing well. Rain wanted for ploughing lands for early paddy. Prices steady.
	43 Singhbhum „ 10, '90	Nil	Weather—very hot. Sugarcane thriving. Mango and <i>mohua</i> yielding well. Nothing else to report on. Prices steady.
	44 Manbhum „ 10, '90	Nil	Weather—very hot and close. No crop on the ground except sugarcane. <i>Kusmi</i> lac has yielded a full crop. Rice selling at from 18 to 26 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 13th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

STOCK IN HAND AS COMPILED ON—													
NAMES OF PLACES.	1st week of May 1889.	1st week of June 1889.	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.
Balachatta	Mds. 12,42,000	Mds. 7,67,500	Mds. 8,78,000	Mds. 7,32,700	Mds. 6,02,000	Mds. 5,06,000	Mds. 4,54,000	Mds. 3,96,500	Mds. 3,00,000	Mds. 5,48,000	Mds. 9,31,100	Mds. 15,22,500	Mds. 10,64,000
Col's strongs	" " 81,200	" " 88,000	" " 86,500	" " 78,700	" " 74,400	" " 71,900	" " 67,400	" " 55,400	" " 65,400	" " 83,900	" " 1,03,500	" " 1,12,900	" " 86,000
Chittore, Gokulnagar, (Noum- bally, Hathnagar, and Gully Ghat.	" " 7,54,200	" " 6,98,500	" " 6,55,400	" " 6,97,700	" " 5,76,300	" " 6,74,100	" " 6,35,300	" " 5,56,000	" " 6,00,400	" " 5,98,200	" " 5,53,800	" " 5,91,400	" " 5,37,800
Pattanchatta, Posta, and J. Mahalan.	" " 3,000	" " 3,500	" " 3,000	" " 3,000	" " 4,000	" " 5,000	" " 8,000	" " 3,000	" " 4,000	" " 5,000	" " 4,000	" " 5,000	" " 4,000
Talassore, Chittab, Kidderpore, and Memnashir.	" " 1,59,000	" " 1,12,700	" " 1,03,700	" " 1,19,700	" " 72,500	" " 64,550	" " 63,200	" " 63,100	" " 82,750	" " 98,100	" " 1,31,200	" " 1,56,550	" " 1,32,900
21 Minor Bazar (estimated) ...	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000	" " 2,40,000
Other retail shops, 5,129 in number (estimated).	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000	" " 2,50,000
Bol'shalir, Nowsingh, and Chatter.	" " 20,000	" " 19,250	" " 19,900	" " 18,117	" " 14,355	" " 14,382	" " 13,410	" " 14,080	" " 25,455	" " 19,605	" " 23,469	" " 21,225	" " 19,309
Total	27,50,400	21,54,125	22,00,206	21,30,917	18,98,165	18,25,232	17,9,310	15,13,080	15,08,975	19,43,506	22,05,909	23,77,375	23,61,669
On Railway premises on both sides of the river.	12,100 (on 3rd May 1889.)	6,578 (on 3rd June 1889.)	7,730 (on 3rd July 1889.)	4,179 (on 3rd Aug. 1889.)	9,698 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,477 (on 3rd Dec. 1889.)	25,007 (on 3rd Jan. 1890.)	26,035 (on 3rd Feb. 1890.)	47,263 (on 3rd Mar. 1890.)	24,995 (on 3rd Apr. 1890.)	24,033 (on 3rd May 1890.)
On the river (by Port Com- missioners' Re- turns.)	17,61 (1st to 3rd May 1889.)	16,006 (1st to 3rd June 1889.)	23,119 (1st to 3rd July 1889.)	14,232 (1st to 3rd Aug. 1889.)	25,33 (1st to 3rd Sept. 1889.)	17,802 (1st to 3rd Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,050 (1st to 3rd Dec. 1889.)	61,641 (1st to 3rd Jan. 1890.)	69,796 (1st to 3rd Feb. 1890.)	96,000 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apr. 1890.)	30,197 (1st to 3rd May 1890.)
(By Canal returns)	8,972 (1st to 3rd May 1889.)	15,397 (1st to 3rd June 1889.)	27,108 (1st to 3rd July 1889.)	29,315 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,028 (1st to 3rd Oct. 1889.)	4,718 (1st to 3rd Nov. 1889.)	8,335 (1st to 3rd Dec. 1889.)	1,31,815 (1st to 3rd Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	28,619 (1st to 3rd Apr. 1890.)	22,978 (1st to 3rd May 1890.)
Grand total of Stocks	27,50,397	22,25,064	22,20,332	22,06,073	19,48,282	19,07,914	17,81,503	15,40,248	17,00,438	21,61,321	23,05,505	25,06,785	24,43,476
Probable stock available for exportation by sea.	17½ lakhs	11½ lakhs	12½ lakhs	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	6 lakhs	7½ lakhs	11½ lakhs	16½ lakhs	19½ lakhs	14 lakhs

STATISTICAL DEPARTMENT,
The 5th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
4th to 10th May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
May	4th	148.7	9.4	29.654	89.0	95.8	15.2	80.6	81.5	0.978	78.6	72	SSW and SSE ...	206	Nil	Partially cloudy.
"	5th	151.5	10.0	.677	89.5	98.7	19.1	79.6	81.4	.967	78.2	71	SSW and SSE ..	141	"	Chiefly clear.
"	6th	153.7	10.4	.600	90.1	102.2	22.7	79.5	81.4	.958	77.9	69	SSW and SSE ...	125	"	Chiefly clear.
"	7th	154.5	8.5	.509	90.3	103.8	23.8	80.0	81.3	.946	77.6	69	SSW, SSE and variable.	120	"	Chiefly cloudy.
"	8th	157.8	9.0	.485	89.8	105.4	25.0	80.4	79.1	.832	73.7	61	SSW and WNW ...	107	"	Partially cloudy.
"	9th	151.6	9.2	.541	89.8	97.8	17.2	80.6	82.2	.996	79.2	72	SSW and S ...	250	"	Partially cloudy.
"	10th	154.2	7.0	.587	91.0	102.4	20.3	82.1	80.0	.879	70.3	63	SSW, S and variable	182	"	Partially cloudy.

The mean pressure of the seven days ... 29.579
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.683

The total number of hours of bright sunshine ... 63.5
The maximum possible number of hours of sunshine ... 91.2

The mean temperature of the seven days ... 90.2
The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 85.2
The extreme variation of temperature ... 25.3
The maximum temperature ... 105.4

The highest velocity of the wind in one hour ... 20

The highest pressure of wind on one square foot ... Approximately 3 lbs.

The mean relative humidity ... 68

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 74

The total fall of rain from 4th to 10th May 1890 ... Nil

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.93

The total fall from 1st January to 10th May 1890 ... 2.13

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 6.16

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 12th May 1890.

Meteorological Report of the Province

METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations.	STATION OBSERVATIONS.														
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.		
			Highest, 8 A.M. barometer reading of month.	Lowest, 8 A.M. barometer reading of month.	Mean, 8 A.M. for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 A.M. humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.
ORISSA.	Pooree	Pooree	29.964	29.654	29.819	29.831	—	92.7	68.6	88.4	72.3	83.5	—	87	—	3.2	—
	Gopalnora	Gopalnora	29.953	29.656	29.804	29.826	—0.007	91.2	77.8	86.8	79.6	82.8	0	82	—	1.3	—
	False Point	False Point	29.961	29.631	29.812	29.834	—0.010	94.0	72.6	89.0	78.5	83.8	—0.5	77	—15	4.9	+1.8
	Cuttack	Cuttack	29.892	29.579	29.737	29.832	+0.006	113.4	72.3	101.8	78.9	90.3	+0.2	71	—1	2.9	+1.6
SOUTH-WEST BENGAL.	Balasore	Balasore	29.907	29.559	29.755	29.813	—0.014	107.5	70.9	96.6	76.7	86.7	+0.5	81	—	9.4	—
	South-West Midnapore and South 24-Pergunnahs	Saugor Island	29.954	29.602	29.800	29.826	—0.007	95.7	73.0	91.3	80.7	86.0	+0.7	79	—13	5.7	+1.1
	Midnapore	Midnapore	29.808	29.479	29.659	29.810	—0.007	113.4	64.2	102.7	76.6	89.7	+0.2	75	—	1.2	—
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	29.949	29.609	29.792	29.814	—0.006	105.4	67.2	95.1	76.5	85.8	+0.2	77	—4	2.0	+0.3
SOUTH-WEST BENGAL.	Burdwan	Burdwan	29.859	29.510	29.692	29.792	—0.020	108.7	67.4	100.8	76.8	88.8	+0.8	70	0	2.6	+0.8
	Bankoora	Bankoora	29.625	29.311	29.478	29.780	—0.009	111.2	67.6	102.8	76.1	89.5	+0.9	67	—	1.9	—
	West Burdwan	Ranigunge	29.639	29.283	29.472	29.807	—0.005	110.7	68.9	102.5	76.3	89.4	+0.9	68	—	2.8	—
	Beerbhoom	Beerbhoom	29.915	29.551	29.728	29.796	—0.012	106.7	66.2	99.1	74.7	86.9	—0.4	83	+15	4.8	+2.7
EAST BENGAL.	Moorshedabad	Berhampore	29.927	29.569	29.754	29.807	+0.004	100.8	66.3	100.0	75.3	87.6	+2.1	73	—	3.4	—
	Nuddea	Krishnagore	29.955	29.604	29.784	29.818	—0.011	100.8	68.5	96.0	76.0	86.0	—0.2	83	—2	4.9	+1.1
	Jessore and Khoolna	Jessore	29.923	29.640	29.788	29.870	—0.011	91.2	69.0	88.7	74.1	81.4	+0.4	81	—7	3.4	—1.7
	Chittagong	Chittagong	29.985	29.654	29.827	29.839	+0.002	94.3	67.9	91.0	75.5	83.2	+0.2	83	—	3.5	—
EAST BENGAL.	Chittagong Hill Tracts	Demagri	29.985	29.653	29.831	29.875	+0.005	90.0	66.9	88.7	73.9	81.3	—1.4	81	—	1.5	—
	Backergunge	Backergunge	29.963	29.613	29.796	29.856	—0.005	93.5	65.9	90.0	74.1	82.0	—2.0	85	—	4.2	—
	Noakholly	Noakholly	29.963	29.613	29.796	29.856	—0.005	93.5	65.9	90.0	74.1	82.0	—2.0	85	—	4.2	—
	Furreedpore	Furreedpore	29.977	29.634	29.811	29.834	—0.005	98.6	66.2	92.3	73.2	82.8	—1.0	83	—4	6.6	—
NORTH BENGAL.	Dacca	Dacca	29.977	29.634	29.811	29.834	—0.005	98.6	66.2	92.3	73.2	82.8	—1.0	83	—4	6.6	—
	Tipperah	Commillah	29.973	29.632	29.820	29.836	0	97.5	64.4	92.6	72.9	82.8	+0.5	77	—	4.6	—
	Mymensingh	Mymensingh	29.941	29.611	29.781	29.841	+0.010	95.7	64.7	89.4	71.6	80.5	—1.2	86	—	6.4	—
	Bogra	Bogra	29.919	29.568	29.739	29.803	+0.012	135.1	65.1	94.3	72.3	83.2	—1.5	78	—	5.8	—
NORTH BENGAL.	Pubna	Serajgunge	29.962	29.589	29.770	29.817	—0.005	98.9	64.9	91.5	72.3	81.9	—2.1	86	—	5.6	—
	Rajshahye	Rampore Beaulah.	29.914	29.554	29.730	29.801	+0.001	104.0	66.7	93.3	73.9	84.7	—0.5	80	—	2.7	—
	Maldah	Maldah	29.911	29.548	29.728	29.810	+0.009	106.8	65.4	97.4	71.7	84.4	0	74	—	3.0	—
	Dinagore*	Dinagore	29.887	29.555	29.702	29.824	—0.008	104.6	62.2	94.0	70.8	82.4	—0.6	75	—	5.4	—
NORTH BENGAL.	Rungpore	Rungpore	29.895	29.546	29.710	29.837	+0.015	102.8	63.9	92.6	70.1	81.4	+1.5	81	—	1.9	—
	Jalpigoree and Cooch Behar.	Jalpigoree	29.730	29.354	29.523	29.815	—0.012	97.0	63.9	88.5	68.6	78.2	0	78	—	2.1	—
	Darjeeling Hill Tracts...	Darjeeling	23.104	22.848	22.952	—	—	66.5	41.7	61.7	49.4	55.6	+1.4	82	+11	5.3	—0.3
	Purneah and North Bhagulpore.	Purneah	29.872	29.505	29.681	29.809	+0.010	105.8	65.5	96.8	70.1	83.4	0	64	+7	2.7	+1.1
NORTH BENGAL.	Mozufferpore	Mozufferpore	29.526	29.402	29.625	29.799	—0.001	103.9	—	96.8	—	—	—	52	+2	0.9	+0.1
	Durbhunga	Durbhunga	29.765	29.396	29.568	29.798	+0.017	104.2	69.8	97.1	69.7	83.4	+1.0	64	—	1.6	—
	Chumparua	Motihari	29.755	29.416	29.586	29.781	0	105.3	60.9	93.4	70.9	84.6	—0.6	53	—	0.7	—
	Sarun	Chupra	29.596	29.317	29.455	29.807	+0.025	110.0	67.0	103.2	75.8	89.5	+2.0	33	—	0.8	—
SOUTH BENGAL.	Shahabad	Dehree	29.723	29.366	29.550	29.794	+0.007	106.4	65.4	101.4	74.3	87.3	+0.8	41	—	1.6	—
		Arrah	29.749	29.409	29.582	29.778	+0.005	107.5	65.5	101.1	73.9	87.0	+0.5	47	—	1.3	—
	Gya	Gya	29.769	29.416	29.603	29.788	—0.004	109.3	68.0	101.1	73.8	87.4	+0.3	54	+9	1.5	+0.3
	Patna	Bankipore	29.569	29.431	29.615	29.782	—0.001	106.3	67.0	98.3	72.9	85.6	+0.2	59	—	2.8	—
CHUTIA NAGPUR.	South Bhagulpore and Monghyr.	Bhagulpore	29.458	29.111	29.286	29.785	—0.005	107.7	67.6	99.7	74.6	87.2	—0.7	60	—	1.7	—
	Hazaribagh	Hazaribagh	27.915	27.664	27.805	29.792	—0.007	104.6	66.3	98.3	73.8	86.0	+0.8	32	—4	1.5	+0.1
	Lehardunga	Ranchee	27.804	27.570	27.692	29.790	—0.001	104.2	66.4	97.8	72.7	85.2	+0.7	46	—	1.0	—
	Manbhum	Manbhum	27.804	27.570	27.692	29.790	—0.001	104.2	66.4	97.8	72.7	85.2	+0.7	46	—	1.0	—
ASSAM.	Singbhoom	Chyebassan	29.163	28.887	29.036	29.795	+0.005	111.8	60.7	104.4	77.0	90.7	+0.8	59	—	1.3	—
		Sibsagar	29.719	29.302	29.553	29.806	0	92.6	67.5	83.5	67.5	75.5	+1.0	91	+1	7.5	+0.6
	Assam	Dhubri	29.102	29.356	29.715	29.835	0	97.7	65.6	87.0	70.6	79.7	—0.8	83	+7	4.5	+1.9
		Silchar	29.922	29.594	29.772	29.879	—0.004	91.5	63.2	86.7	70.1	78.4	+0.1	87	+5	7.9	+2.5

* Mean for 29 days.

Bengal for the month of April 1890.

DISTRICT OBSERVATIONS.											Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.													
Of month.					Since 15th May 1889.								
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.				
0.63	0.98	-0.95	0.5	2.0	77.62	58.28	+19.36	103.3	89.3	Poorce Gopalpore False Point	Poorce	ORISSA.	
0.14	1.06	-0.92	1.0	2.2	68.44	54.95	+13.49	98.8	86.1	Cuttack	Cuttack		
0.50	1.68	-1.18	1.5	3.6	53.93	57.32	-4.29	90.4	85.8	Balasore	Balasore		
0.02	1.72	-1.70	0.7	3.3	50.99	66.73	-6.74	106.3	93.7	Saugor Island	South-West Midnapore and South 24-Pergunnahs.		
0.51	1.55	-1.14	1.3	3.2	47.93	55.84	-7.91	90.4	89.2	Midnapore	Midnapore	SOUTH-WEST BENGAL.	
1.07	1.94	-0.87	2.1	4.0	55.76	56.37	-0.61	69.9	100.0	Calcutta	24-Pergunnahs, Howrah, and Hooghly.		
1.91	2.16	-0.25	3.0	4.2	46.40	51.32	-4.92	89.2	85.2	Burdwan	Burdwan		
0.76	1.19	-0.44	2.5	2.8	57.57	55.28	+2.29	88.2	89.9	Bankoora	Bankoora		
1.15	1.21	-0.06	2.0	3.2	54.39	54.45	-0.06	90.5	91.1	Ranigunge	West Burdwan and Beerbhoom.	SOUTH-WEST BENGAL.	
1.47	1.39	+0.08	2.5	3.0	52.96	53.64	-0.68	86.6	86.3	Berhampore	Moorsheadabad		
2.28	2.85	-0.57	4.6	4.8	54.30	54.83	-0.53	95.0	88.0	Krishnagore	Suddea		
3.14	3.33	-0.19	5.9	5.5	58.10	59.89	-1.79	105.3	96.2	Jessore	Jessore and Khoolna		
4.30	2.93	+1.37	8.5	4.9	107.20	119.51	-12.31	125.0	118.1	Chittagong	Chittagong	EAST BENGAL.	
3.55	3.58	-0.03	8.5	6.0	73.44	88.83	-15.39	110.0	126.8	Demagri	Chittagong Hill Tracts		
4.22	3.12	+1.10	8.0	5.2	83.13	83.35	-0.22	110.7	117.1	Barrisal	Backergunge		
5.93	4.55	+1.38	8.0	6.0	99.02	116.40	-16.87	126.5	121.8	Noakholly	Noakholly		
4.94	3.76	+1.18	8.0	6.3	68.55	63.38	+5.17	95.9	99.8	Furreedpore	Furreedpore	EAST BENGAL.	
5.68	4.58	+1.08	7.3	7.8	83.60	68.60	+15.00	120.8	106.4	Dacca	Dacca		
4.64	4.09	-0.35	9.8	6.7	63.08	79.43	-16.35	108.4	111.5	Commillah	Tipperah		
5.28	2.98	+1.30	7.2	7.2	96.56	74.44	+22.12	117.6	102.2	Mymensingh	Mymensingh		
3.30	1.22	+1.48	4.5	3.8	69.69	69.93	+0.76	110.7	85.7	Bogra	Bogra	EAST BENGAL.	
4.01	2.95	+1.06	7.5	6.0	61.39	58.85	+2.54	116.0	92.6	Serajunge	Pubna		
4.28	1.41	+2.87	4.3	2.8	68.71	57.00	+1.71	96.9	83.8	Rampore Beaulah.	Rajshahye		
0.35	0.98	-0.63	2.5	2.5	40.25	56.39	-16.14	78.8	99.2	Maldah	Maldah		
1.29	1.11	+0.18	3.0	2.5	58.82	59.66	-0.84	87.1	84.1	Dinapore	Dinapore	NORTH BENGAL.	
3.77	3.52	+0.25	7.0	6.2	89.66	79.25	+10.41	96.2	85.5	Rungpore	Rungpore		
7.54	4.34	+3.20	11.0	7.0	125.33	117.81	+7.52	117.0	109.0	Julpigoree	Julpigoree and Cooch Behar.		
5.11	4.80	+0.25	13.3	9.8	138.64	128.96	+9.68	142.7	130.8	Darjeeling	Darjeeling Hill Tracts.		
0.71	1.34	-0.63	2.0	2.4	75.70	61.01	+14.75	75.2	73.2	Purneah	Purneah and North Bhagulpore.	NORTH BENGAL.	
0.30	0.65	-0.35	1.7	1.4	49.22	45.06	+4.16	74.1	62.1	Mozufferpore	Mozufferpore		
0.20	0.69	-0.49	1.3	1.6	52.37	46.11	+6.26	69.3	61.8	Durbhunga	Durbhunga		
NH	0.77	-0.77	0.0	1.5	64.11	48.31	+15.80	67.0	58.0	Motihari	Chumparun		
0.02	0.28	-0.23	0.3	1.0	40.52	43.86	-3.34	60.0	61.2	Chupra	Saran	NORTH BENGAL.	
0.03	0.16	-0.13	0.4	0.7	40.52	41.02	-0.50	71.4	64.7	Dehree Buxar Arrah	Shahabad		
0.04	0.25	-0.21	0.3	0.9	37.38	42.68	-5.30	67.3	61.6	Gya	Gya		
0.04	0.20	-0.16	0.8	1.1	43.66	42.23	+1.43	65.2	66.0	Bankipore	Patna		
0.50	0.51	+0.08	1.2	1.4	43.12	44.53	-1.41	71.8	70.3	Bhagulpore	South Bhagulpore and Monghyr.	SOUTH BENGAL.	
0.70	0.73	-0.05	2.0	2.0	55.29	52.57	+2.72	88.4	80.8	Naya Doomka	SonthalPergunnahs		
NH	0.28	-0.28	0.0	1.1	43.64	52.14	-8.50	86.6	85.9	Hasaribagh	Hasaribagh		
0.06	0.40	-0.34	0.7	1.9	46.09	50.96	-4.87	87.8	92.8	Ranchee	Lohardugga		
0.25	0.74	-0.49	1.5	2.8	39.52	49.37	-9.85	104.1	91.8	Ranchee	Maunbhoom	CHITTA NAGPUR.	
0.04	0.67	-0.63	1.0	2.9	49.88	54.30	-4.42	107.0	100.3	Chyabassa	Singbhoom		
										Sibsagar Jhubri Silchar	Assam		
											Assam		

Table of Rainfall recorded at Station

[illegible]

Bengal in April 1890.

	21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th April 1890.	Average rainfall from 1st January up to 30th April.	Station.	District.	Meteorological division.
005	Nil	1.4	Nil	0.86	Nil	1.40	2.79	Pooree	Pooree	ORISSA.
...	1	2.6	0.09	0.08	0.09	4.43	2.47	Khurda.	...	...
...	1	1.5	0.05	0.08	0.05	5.18	2.67	Banpur.	...	...
...	Nil	2.3	Nil	2.19	Nil	0.72	4.81	Paise Point.	...	...
...	Nil	?	Nil	?	Nil	1.92	?	Gop.	...	...
...	Nil	?	Nil	?	Nil	0.71	?	Satpara.	...	...
...	?	?	?	?	?	?	?	Pipili.	...	...
010	Nil	1.3	Nil	0.72	Nil	2.22	2.49	Jagatsingapore.	Cuttack.	...
...	2	2.3	0.19	0.36	0.19	4.24	3.04	Banki.	...	...
...	Nil	2.9	Nil	0.41	Nil	2.40	3.57	Cuttack.	...	...
...	Nil	1.8	Nil	1.06	Nil	0.59	3.10	Kendrapara.	...	...
...	3	2.8	0.52	1.81	0.21	1.51	4.08	Jajpore.	...	...
...	2	?	0.95	?	0.66	1.80	?	Dharmasala.	...	...
...	Nil	?	Nil	?	Nil	1.31	?	Salipore.	...	...
...	Nil	2.3	Nil	1.02	Nil	1.07	3.61	Chandbali.	Balasore.	...
...	2	3.9	0.89	1.89	0.72	4.05	2.08	Bhuddruck.	...	...
...	1	3.6	0.55	1.88	0.55	2.36	4.35	Sorah.	...	...
...	2	5.2	0.88	3.60	0.82	4.27	6.70	Balasore.	...	...
...	Nil	2.9	Nil	1.41	Nil	4.89	4.14	Jellapore.	...	...
...	4	3.9	0.77	1.34	0.45	2.18	3.96	Baripodah.	...	...
...	Nil	3.1	Nil	1.51	Nil	2.40	4.37	Contai.	Midnapore	SOUTH-WEST BENGAL.
...	1	3.5	0.02	1.31	0.02	0.95	4.17	Saugor Island.	...	...
...	1	2.6	0.10	1.64	0.10	1.20	4.95	Tumlook.	...	...
...	2	3.7	0.67	1.64	0.57	1.57	4.61	Midnapore.	...	...
...	1	3.4	0.76	1.81	0.76	2.16	4.83	Ghatol.	...	...
...	Nil	?	Nil	?	Nil	1.12	?	Kutrahaty.	...	...
...	1	?	0.42	2.09	0.42	5.19	5.30	Garbeta.	...	...
010	1	3.3	0.05	2.32	0.05	1.33	6.08	Diamond Harbour.	24-Pergunnahs.	...
002	2	?	0.14	?	0.10	0.46	?	Canning Town.	...	...
004	1	4.0	0.92	1.81	0.38	2.40	5.08	Alipore Jail.	...	...
004	2	4.1	0.97	1.81	0.84	1.79	5.25	Barackpore.	...	...
004	1	3.4	0.84	2.03	0.84	2.06	5.24	Dum-Dum.	...	...
004	1	3.8	0.80	2.03	0.80	2.08	5.48	Barasat.	...	...
004	6	4.1	5.12	2.13	2.45	6.77	6.77	Buseerhat.	...	...
045	3	4.5	0.81	2.03	0.45	1.73	5.76	Howrah.	Howrah.	...
007	2	3.4	0.09	1.47	0.07	0.92	4.00	Mohoreka (Ooloberia).	...	...
008	2	4.6	0.58	2.00	0.56	1.50	5.05	Serampore	Hooghly.	...
...	1	4.4	0.35	2.71	0.35	1.64	6.31	Hooghly.	...	...
...	2	3.6	0.18	1.91	0.11	2.94	4.72	Jehanabad.	...	...
...	4	3.7	2.48	2.39	1.30	3.00	5.32	Culina	Burdwan.	...
...	4	5.1	1.24	2.23	0.88	2.17	4.64	Burdwan.	...	...
...	4	3.8	2.00	1.80	1.55	2.51	4.70	Cutwa.	...	...
...	2	3.3	0.63	1.26	0.60	1.74	3.43	Ranecungra.	...	...
...	3	?	1.37	?	0.85	1.89	?	Mankur.	...	...
...	4	3.8	1.05	1.61	0.77	2.35	4.74	Bankoora	Bankoora.	...
...	3	3.1	1.22	1.56	0.81	2.16	2.97	Bishnupore.	...	...
...	2	2.4	0.63	0.89	0.55	1.33	2.42	Bahara.	...	...
...	1	2.0	0.10	0.76	0.10	1.00	2.89	Khatra.	...	...
...	1	?	1.26	?	1.26	1.98	?	Indas.	...	...
...	2	?	0.98	?	0.72	3.59	?	Kotalpore.	...	...
...	2	?	0.30	?	0.41	0.90	?	Anda.	...	...
...	2	?	0.48	?	0.32	1.65	?	Gangajalghati.	...	...
...	Nil	?	Nil	0.77	Nil	1.25	3.01	Raipore.	...	...
...	2	?	1.19	?	1.11	1.65	?	Sonamukhi.	...	...
...	2	3.6	1.20	0.94	0.85	1.79	3.00	Bh. Soory	Beerbhoom.	...
...	3	2.6	2.45	1.13	1.19	3.14	3.06	Hetampore.	...	...
...	1	3.2	0.30	1.02	0.30	0.70	3.90	Rempore Haut	...	...
...	2	?	2.04	?	1.81	2.56	?	Boipur.	...	...
...	2	?	2.73	?	2.40	3.20	?	Murarat.	...	...
...	5	4.0	1.40	2.09	0.82	2.25	5.79	Ranaghat	Nuddea.	...
...	4	4.7	1.40	2.47	0.74	1.60	5.16	Kishnaghat.	...	...
...	4	4.8	2.32	2.83	0.80	2.92	6.13	Choodanga.	...	...
...	3	4.5	2.15	2.98	1.40	2.54	6.42	Meherpore.	...	...
...	5	5.8	3.81	3.01	1.28	4.61	6.37	Kooshtea.	...	...
...	7	4.7	4.42	2.53	2.58	6.45	6.82	Satkha.	Khoolna.	...
...	4	4.2	2.32	3.36	1.36	3.80	7.18	Bagirhat.	...	...
...	5	5.7	2.28	3.21	1.01	3.62	7.34	Khoolna.	...	...
...	4	?	4.15	?	2.59	4.15	?	Nakipur.	...	...
...	2	?	1.41	?	0.73	2.51	?	Rampal.	...	...
...	8	6.0	4.30	3.22	1.29	7.22	7.90	Narail	Jessore.	...
...	8	6.9	3.44	4.44	0.95	5.34	7.94	Jessore.	...	...
...	3	5.3	1.89	3.36	0.97	2.27	6.09	Jhenidah.	...	...
...	8	6.3	4.41	3.96	2.10	5.62	7.85	Magoorah.	...	...
...	4	4.2	2.94	2.74	0.62	3.97	5.96	Bongong.	...	...
...	2	3.1	0.32	1.06	0.27	1.52	3.90	Kandi	Moorshedabad.	...
...	1	3.2	0.41	1.92	0.41	0.78	4.46	Berhampore.	...	...
...	1	3.5	0.22	1.21	0.22	0.27	3.40	Lalbagh.	...	...
...	4	3.2	1.19	1.32	0.45	1.19	3.57	Azingunge.	...	...
...	3	3.1	2.09	1.20	1.39	2.42	3.00	Jungipore.	...	...
...	4	3.0	4.00	1.31	3.30	4.64	3.43	Laigola.	...	...
...	2	?	0.80	?	0.45	0.97	?	Jungunge.	...	...
...	3	?	1.45	?	1.10	1.74	?	Akhirgung.	...	...
...	4	?	2.91	?	0.90	3.01	?	Patkabari.	...	...
...	7	4.2	4.26	2.33	1.50	6.38	5.61	Cox's Bazar	Chittagong	EAST BENGAL.
...	10	5.6	4.33	4.03	1.91	7.96	8.26	Chittagong.	...	...
...	7	?	3.33	?	0.99	4.93	?	Kutubdia.	...	...
...	6	?	2.05	?	0.65	4.55	?	Satkanya.	...	...
...	9	6.4	4.88	4.01	2.68	10.54	8.05	Rangamati	Chittagong	...
...	8	5.6	2.12	3.30	0.62	6.09	6.07	Ruma.	Hill Tracts.	...

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11	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1880 up to 30th April 1880.	Average rainfall from 1st January up to 30th April.	Station.	District.	Meteorological division.
1'05	1'10	1'10	...	...	...	0'72	...	...	...	5	4'8	3'89	3'04	1'10	4'60	6'75	Patunkhally	Hackerungge.	EAST BENGAL— concl'd.
0'21	0'27	0'45	...	...	...	0'14	...	...	...	4	4'4	2'27	2'05	1'41	2'86	6'27	Perozepore.		
1'25	1'54	1'43	0'11	...	...	...	...	...	...	5	6'4	4'15	3'61	1'54	5'53	7'64	Borrisal.		
0'45	1'51	2'87	...	...	0'05	...	...	...	...	6	5'0	6'56	3'69	2'87	8'26	7'32	Rhola.		
...	0'09	3'58	...	...	...	...	...	...	...	4	?	5'25	?	3'58	6'00	?	Gournaddi.		
...	0'86	0'87	...	...	0'13	...	...	...	...	4	?	1'75	?	0'86	2'05	?	Bauphal.		
2'58	1'00	0'21	...	...	0'14	...	...	...	...	8	5'6	5'82	4'31	2'88	9'12	8'57	Noakholly	Noakholly.	
3'09	0'45	0'23	0'64	...	...	...	...	...	...	8	6'3	6'24	4'77	3'90	9'51	10'74	Fenny.		
0'03	...	...	...	...	...	...	...	...	...	?	?	?	?	?	?	?	Harishpore.		
2'25	1'25	...	...	...	1'70	...	...	...	...	5	?	5'50	?	2'25	6'50	?	Ramganj.		
0'85	1'55	2'38	...	...	0'16	1'10	...	...	...	8	6'9	6'45	5'62	2'35	9'07	8'03	Madaripore	Furreadpore.	
0'17	0'39	...	...	...	0'10	...	...	...	...	8	6'5	1'58	4'07	0'47	6'02	8'48	Furreadpore.		
...	4'11	0'11	...	...	0'29	...	...	...	...	8	6'4	6'78	3'93	4'11	9'55	7'85	Goalundo.		
...	1'40	0'09	...	...	...	...	...	...	...	6	7'5	4'55	4'82	1'50	7'89	10'05	Munshigunge.	Dacca.	
...	1'45	0'08	...	...	...	...	...	...	...	7	8'6	6'53	5'81	2'57	11'90	9'75	Dacca.		
...	1'16	0'19	...	...	0'44	0'04	...	...	...	5	7'3	5'67	4'65	1'71	7'47	9'05	Naraingunge.		
...	1'45	2'10	...	...	0'16	0'03	...	...	...	5	7'7	6'06	5'97	3'10	8'77	7'55	Manickgunge.		
...	1'14	0'46	...	...	0'23	0'03	...	...	...	9	?	6'70	?	1'56	9'35	?	Joydebpore.		
...	0'57	...	...	...	...	...	...	...	...	5	6'5	6'27	5'28	2'72	10'35	12'00	Agartola	Hill Tipperah.	
0'02	0'22	0'29	0'03	...	0'02	0'03	...	...	0'14	14	7'4	2'59	6'53	1'05	3'59	11'09	Comilla	Tipperah.	
0'40	1'04	0'10	...	...	0'10	1'28	...	...	...	8	5'6	5'42	4'59	1'64	7'67	9'02	Chandpore.		
...	...	0'67	0'31	...	0'14	0'04	...	...	0'04	12	7'4	4'38	5'06	1'25	8'98	11'31	Brahmunberia.		
0'17	0'03	0'35	0'05	...	0'06	...	...	...	...	9	?	2'98	?	0'03	4'31	?	Ramchandrapore.		
1'10	1'20	2'40	1'20	...	0'56	...	...	...	...	8	?	13'50	?	3'40	22'00	?	Nasirnagar.		
...	0'43	...	...	...	...	...	...	...	...	3	?	1'71	?	0'65	5'15	?	Daudkandi.		
0'53	0'39	...	...	...	...	...	...	...	...	5	?	1'45	?	0'43	3'09	?	Kasba.		
...	...	...	...	...	...	...	...	...	...	4	?	4'42	?	2'19	7'05	?	Laksham.		
...	0'48	...	...	...	0'85														

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NORTH BHAR —contd.	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durbhunga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Madhubani ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bahera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mozufferpore ...	Rohara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sitamarhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mozufferpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hajipur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumpanon ...	Paru ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sikhar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Papri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sarun ...	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bettiah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bagaha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Burhura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH BHAR	Shahabad ...	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sowan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhubooh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna ...	Mohanah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Aurangabad... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr ...	Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sheerghati ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CHUTIA NA- PUR.	Bansaribagh ...	Fachamba ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(Giridi) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sontagurah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga...	Mahudi Hills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bardi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singhbhum ...	Karagdeha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ranagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lohardugga... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ranchi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Manbhoem ...	Palmow ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Silli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Batumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hosseinabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Bengal for the month of April 1890—concluded.

	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th April 1890.	Average rainfall from 1st January up to 30th April.	Station.	District.	Meteorological division.
110000	Nil	0.0	Nil	0.32	Nil	0.21	1.57	Tajpore	Durbhunga	NORTH BEHAR—concl.
110001	1	1.0	0.10	0.30	0.10	0.46	1.23	Durbhunga.		
110002	3	1.0	0.40	1.00	0.22	0.50	2.08	Madhubani.		
110003	Nil	?	Nil	?	Nil	0.13	?	Bahera.		
110004	Nil	?	Nil	?	Nil	0.05	?	Roshera.		
110005	0.06	0.14	...	...	...	4	1.0	0.87	1.18	0.65	1.30	2.06	Sitamarhi	Muzafferpore.	
110006	0.04	...	...	...	...	1	1.4	0.04	0.32	0.04	0.21	2.57	Muzafferpore.		
110007	Nil	0.0	Nil	0.19	Nil	0.17	1.63	Hajipore.		
110008	Nil	?	Nil	?	Nil	?	?	Para.		
110009	Nil	?	Nil	?	Nil	?	?	Mahua.		
110010	Nil	?	Nil	?	Nil	?	?	Sisnar.		
110011	1	?	0.24	?	0.24	1.12	?	Pupri.		
110012	Nil	1.8	Nil	0.64	Nil	0.73	1.00	Motihari	Chumpran.	
110013	Nil	1.1	Nil	0.75	Nil	0.40	2.31	Bettiah.		
110014	0.06	0.02	0.03	...	...	3	?	0.71	?	0.68	2.28	?	Bagaha.		
110015	0.01	...	...	...	...	1	?	0.01	?	0.01	0.24	?	Darhanga.		
110016	Nil	0.6	Nil	0.20	Nil	0.25	1.61	Gopalgunge...	Saran.	
110017	Nil	1.4	Nil	0.27	Nil	0.23	1.73	Sewan.		
110018	0.05	...	...	...	...	1	1.1	0.05	0.28	0.05	0.16	1.00	Chuprah.		
110019	Nil	0.8	Nil	0.16	Nil	0.30	1.54	Buzar	Shahabad	SOUTH BEHAR.
110020	0.04	...	...	...	...	1	0.3	0.04	0.09	0.04	0.40	1.56	Dehra.		
110021	Nil	0.0	Nil	0.14	Nil	0.45	1.87	Bhuboah.		
110022	0.12	...	...	...	...	1	0.8	0.12	0.17	0.12	1.02	1.45	Sasseram.		
110023	0.03	...	...	...	...	1	1.1	0.03	0.50	0.03	0.16	2.36	Arrah.		
110024	Nil	?	Nil	?	Nil	0.23	?	Mohanah.		
110025	0.16	...	...	...	...	1	0.0	0.16	0.33	0.16	0.36	1.66	Aurangabad...	Gya.	
110026	Nil	1.1	Nil	0.32	Nil	0.35	1.97	Gya.		
110027	Nil	0.0	Nil	0.30	Nil	0.13	1.93	Nowadah.		
110028	Nil	0.5	Nil	0.15	Nil	0.37	1.02	Jehanabad.		
110029	0.00	...	...	...	...	1	?	0.00	?	0.00	0.24	?	Arwal.		
110030	Nil	?	Nil	?	Nil	?	?	Daudnagar.		
110031	Nil	?	Nil	?	Nil	?	?	Sherghati.		
110032	Nil	?	Nil	?	Nil	?	?	Rajauli.		
110033	Nil	?	Nil	?	Nil	?	?	Pakri Bara-wan.		
110034	1	1.2	0.01	0.27	0.01	0.11	1.77	Patna	Patna.	
110035	0.06	...	...	...	...	1	1.0	0.06	0.23	0.06	0.06	1.30	Dinapore.		
110036	1	1.1	0.10	0.22	0.10	0.31	1.75	Behar.		
110037	Nil	0.0	Nil	0.12	Nil	0.20	1.30	Barra.		
110038	0.15	...	...	...	...	2	?	0.75	?	0.60	0.35	?	Bichram.		
110039	Nil	?	Nil	?	Nil	0.43	?	Hilsa.		
110040	1	1.2	0.44	0.30	0.43	0.56	1.08	Begoeserai	Monghyr	
110041	1	1.3	0.01	0.45	0.01	0.11	1.97	Monghyr.		
110042	Nil	1.0	Nil	0.50	Nil	0.10	2.24	Jamui.		
110043	Nil	?	Nil	?	Nil	?	?	Gogri.		
110044	Nil	?	Nil	?	Nil	?	?	Sheikpura		
110045	1	1.8	0.04	0.84	0.04	0.06	2.37	Bhagulpore	South Bhagulpore.	
110046	3	1.6	2.45	0.26	1.65	2.49	1.99	Banka.		
110047	Nil	?	Nil	?	Nil	?	?	Kolgong.		
110048	1	?	0.35	?	0.35	0.35	?	Bongaon.		
110049	1	1.6	0.75	1.04	0.75	0.82	2.02	Rajmehar	Sontal Pergunnahs.	
110050	1	1.6	0.03	0.40	0.03	0.73	1.78	Godda.		
110051	0.02	...	...	...	...	3	1.3	1.21	0.48	0.62	1.45	2.28	Pakour.		
110052	3	3.1	1.32	1.05	0.66	1.67	3.00	Nya Doomka.		
110053	1	2.3	0.40	0.80	0.40	0.82	2.54	Deoghur.		
110054	3	2.0	0.51	0.61	0.30	1.36	2.35	Jamtara.		
110055	1	?	0.24	?	0.24	0.24	?	Mohagama.		
110056	2	?	0.78	?	0.61	1.76	?	Nantahat.		
110057	Nil	2.1	Nil	0.04	Nil	0.34	2.37	Pachamba	Hazaribagh	CHUTIA NAGPUR.
110058	Nil	2.1	Nil	0.35	Nil	0.41	2.33	(Girdi).		
110059	Nil	0.8	Nil	0.30	Nil	0.74	2.51	Hazaribagh.		
110060	Nil	0.4	Nil	?	Nil	?	?	Semtagurah.		
110061	Nil	Nil	Nil	Nil	Nil	0.40	1.46	Mahudi Hills.		
110062	Nil	?	Nil	?	Nil	0.67	?	Jhoomrah Hills.		
110063	Nil	?	Nil	?	Nil	1.05	?	Barhi.		
110064	Nil	?	Nil	?	Nil	0.70	?	Chatra.		
110065	Nil	?	Nil	?	Nil	?	?	Karagdeha.		
110066	Nil	?	Nil	?	Nil	?	?	Kamghar.		
110067	Nil	2.0	Nil	0.22	Nil	1.40	2.31	Lohardugga	Lohardugga.	
110068	Nil	2.4	Nil	0.62	Nil	2.62	3.73	Ranchi.		
110069	0.10	0.08	...	...	...	2	1.3	0.18	0.29	0.10	1.14	2.21	Palamow.		
110070	Nil	?	Nil	?	Nil	0.40	?	Sitli.		
110071	0.02	...	...	...	...	1	?	0.02	?	0.02	0.15	?	Dakumat.		
110072	Nil	?	Nil	?	Nil	0.39	?	Koskenabad.		
110073	Nil	?	Nil	?	Nil	0.66	?	Garewah.		
110074	0.04	...	...	...	...	1	2.0	0.04	0.68	0.04	1.12	3.46	Chyobassa	Singbhoom.	
110075	?	?	?	?	?	?	?	Chakradhar-pore.		
110076	0.23	...	...	...	...	2	?	1.56	?	1.32	3.60	?	Chatsila.		
110077	1	?	0.65	?	0.65	4.22	?	Baharagura.		
110078	0.01	...	...	...	...	2	3.8	0.47	0.81	0.46	1.50	3.08	Purulia	Manbhoom.	
110079	1	1.8	0.03	0.63	0.03	0.89	2.46	Gobindpore		
110080	Nil	?	Nil	?	Nil	0.41	?	Raghunath-pore.		
110081	Nil	?	Nil	?	Nil	1.50	?	Barabhoom.		
110082	Nil	?	Nil	?	Nil	0.88	?	Jhalda.		
110083	1	?	0.28	?	0.35	1.34	?	Chas.		

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF APRIL 1890.**

Meteorology of the month.—Weather conditions, especially during the latter half of the month, have been very different in the various districts. Thus in East and North Bengal rainfall has been above the average and temperature below, while in the other districts rainfall has been deficient and temperature in excess. This may be due to the position of the low-pressure area which generally lies over Bengal, to the centre of which the three sets of winds seem to converge. In consequence of the high pressure in the early part of the month, the area of lowest pressure was either close up to the hills, in which case westerly winds were blowing over the whole province and no rain fell, or the area was to the west of the boundary of Bengal, and then the westerly winds blowing across Chutia Nagpur or down the Gangetic valley were feeble. It would seem that the rainfall in the western districts in the month of April is due to the interaction of the Bay current and the westerly current, and as the latter has been feeble during the month under review, the rainfall on that side of the province has also been below the normal, while the continued cloudless weather has given higher temperatures than usual. Again in the eastern districts, the current from the Bay has moved in a more northerly direction, and the interaction with the Assam current may have been more pronounced than usual; hence the heavier rainfall in East and North Bengal. In the early part of the month pressure had commenced to rise, and with various small oscillations the rise went on during the first half of the month, during which time there was lower pressure in the North West Provinces and Central India than in Bengal. The weather had the ordinary hot season characteristics, high temperature, clear skies, and generally southerly winds in the lower districts and easterly in North Bengal and Behar. By the middle of the month pressure was again below the normal, and it continued so almost till the end of the month. Two small depressions appeared during the third and fourth weeks, the first about the 17th, when winds were south-easterly in South-West and East Bengal and general rain fell in the eastern districts, but only very scattered showers elsewhere. The depression moved from the west to about the centre of the province and then filled up. The second one commenced on the 24th to the west of Chutia Nagpur, and moving in a south-easterly direction was over the head of the Bay on the 26th and in Arakan on the 27th. During the ten days following the 17th the weather in East and North Bengal was unsettled. Severe thunderstorms with heavy rain were of daily occurrence, and one of these, in the neighbourhood of Mymensingh, seems to have acquired the violence of a tornado. Thus during the month, pressure was high in the early part, fine clear weather prevailing, and low during the latter half, when winds from Assam strengthening and those in Lower Bengal becoming easterly, showery weather with low temperature set in, while in the other districts only occasional scattered showers occurred.

Pressure.—The steady rise which had set in at the end of March continued till the end of the first week of April, when there was a large excess in the centre of the province, gradually diminishing towards the boundaries. At Maldah and Serajgunge it exceeded a fifth of an inch, and in East Bengal and parts of South-West and North Bengal was more than $\frac{1}{15}$ inch. A general fall then set in and continued with moderate rapidity till the 12th, when the distribution was very nearly normal, and after remaining steady or oscillating about the normal for some days, a fall again set in on the 17th, followed by slight changes on the 18th and a rapid rise on the 19th, especially in East Bengal. From the 20th to the 24th it fell rapidly, giving a defect of about a fifth of an inch in East Bengal and a tenth elsewhere, then rose rapidly till the distribution was again nearly normal on the 26th, after which it fell on the 29th and rose on the 30th. The oscillations have therefore been large and generally continued for several days, but except in the early part of the month, pressure has generally been below the average. The means for the month are slightly below the normal in Lower Bengal, the difference being about a hundredth of an inch in Orissa, South-West Bengal, and South Behar. Elsewhere there is a small excess, generally under a hundredth of an inch.

Temperature.—Has generally been above the normal, more especially in the western half of the province. In the early part of the month excess was largest in the day temperatures, averaging about 3° , while at night there was generally excess of about 1° . Between the 4th and 11th there was a large fall in the maximum temperature in Lower Bengal, but an increase at night, the mean still continuing above the normal, except in Orissa and East Bengal. As compared with the normal, there was less difference during these days than any other part of the month, and these conditions remained unaltered in Orissa and East Bengal for some time, while excess was from 2° to 3.5° in the other districts. Between the 18th and 26th, in consequence of the two shallow depressions giving unsettled weather and thunderstorms, a rather large defect appeared in East and North Bengal, but after the disappearance of the second depression about the 26th, a cold wave moved over the whole province, giving unusually low temperatures for about one day. It was felt in Behar on Saturday the 26th, over the great part of Bengal on the 27th, and at the eastern stations on the 28th. With the approach of these conditions temperature fell with great rapidity, and for the short time they lasted it was from 10° to 20° below the normal. Some of the minimum temperatures registered on the 27th were—Chupra 61° , Arrah and Hazaribagh 66° , Dehree, Buxar, and Bhagulpore 67° . On the 28th Darjeeling reported 41.7° , Purneah 63° ,

and several other stations under 65°, while over almost the whole of Bengal temperature on the night of the 27th was under 70°. A rapid rise followed, and till the end of the month excess prevailed. The means for the month are above the normal except in East and North Bengal. In Chutia Nagpur excess is 0·8°, South-West Bengal 0·6°, and South Behar 0·5°. For East and North Bengal defect is about half a degree, and for the other districts the mean is very nearly normal.

Rainfall—Was absent during the early part of the month. Scattered showers commenced in South-West and East Bengal, continuing till the 10th, and almost general rain fell in the northern districts of North Bengal from the 9th to the 11th. Between the 11th and 15th only a few scattered showers fell in North Bengal, but on the 16th they were again more numerous in East and North Bengal, and almost general rain was received on the 18th and 19th over the eastern half of the province. Rainfall was again more scattered on the 19th, and continued so till the 26th, after which it practically ceased. The showers in the western half have been unusually scattered and scanty, and the average fall for these parts is largely below the normal. Excess in North Bengal amounts to 1·3 inches, and in East Bengal to 0·9 inch. South-West Bengal has received about three-fourths of the average, South Behar four-fifths, North Behar one-third, Orissa one-fifth, and Chutia Nagpur one-seventh. Some heavy falls have occurred in East and North Bengal, the heaviest being Julpigoree 6·3 inches, Mymensingh 6 inches, Noakhally and Serajgunge over 5 inches, and Dacca 4·8 inches. Heavy rain has been falling in Assam—12·8 inches at Silchar, 6·9 inches at Sibsagar, and 6·8 inches at Dhubri.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of April 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.								RAINFALL.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1889.			
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.		
Orissa	115·4	65·6	92·5	78·6	85·5	+0·1	0·26	1·29	-1·03	1·1	2·7	-1·6	64·78	56·76		
South-West Bengal	113·4	64·2	98·9	76·0	87·7	+0·5	1·54	2·05	-0·51	3·1	4·0	-0·9	54·92	56·50		
East Bengal	98·6	64·4	90·4	73·6	82·0	-0·5	4·38	4·00	+0·38	7·6	6·4	+1·2	83·48	82·17		
North Bengal*	100·8	62·3	93·4	71·4	82·4	-0·5	3·70	2·43	+1·23	6·0	4·4	+1·6	77·62	74·65		
North Behar	103·8	58·5	90·0	70·2	83·8	+0·1	0·32	0·81	-0·49	1·3	1·7	-0·4	58·32	50·42		
South Behar*	110·9	65·4	100·6	74·1	87·3	+0·5	0·32	0·40	-0·08	1·0	1·3	-0·3	44·76	45·11		
Chutia Nagpur	101·6*	66·3*	98·0*	73·3*	83·6*	+0·8*	0·06	0·43	-0·37	0·5	1·8	-1·3	44·16	51·32		
Assam	97·7	62·3	85·7	60·4	77·5	+0·1										

* Gya and Chyebnasm not included.

METEOROLOGICAL OFFICE, BENGAL,
The 13th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

			STATION OBSERVATIONS.												
METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
ORISSA.	Pooree	Pooree	29.650	29.662	—	SW	386	92.2	8th May	81.1	3rd May	91.0	82.3	86.6	—
		Gopalpore	29.635	29.657	—130	SSW	483	89.2	5 & 7	80.8	3rd	88.4	84.0	83.2	+2.6
		False Point	29.648	29.669	—127	South-westerly.	374	91.0	9th	89.2	6th & 7th May	90.2	81.2	83.7	+1.1
	Cuttack	Cuttack	29.577	29.657	—116	SW, SSW	134	110.4	9th	82.4	7th	100.5	83.3	94.9	+4.9
	Balasore	Balasore	29.591	29.649	—126	S	245.1	104.5	9th	79.7	4th, 7th & 8th May	100.6	80.2	90.4	+5.5
	South-West Midnapore } South 24-Pergunnahs }	Saugor Island	29.644	29.670	—124	SSW	494	94.2	9th	83.0	4th to 7th May	93.0	83.2	88.1	+3.7
	Midnapore	Midnapore	29.494	29.643	—129	S	144.7	110.4	6th, 7th & 9th May	80.2	6th & 9th May	100.1	81.1	95.1	+9.1
	24-Pergunnahs } Howrah } Hooghly }	Calcutta	29.632	29.653	—133	SSW	147	105.4	9th	79.7	5th & 6th May	99.9	80.3	90.1	+6.5
	Burdwan	Burdwan	29.546	29.633	—147	Southerly	131.9	108.5	9th	79.4	8th	100.7	81.5	94.1	+8.8
SOUTH-WEST BENGAL.	Bankoora	Bankoora	29.326	29.639	—121	Southerly	102.8	110.1	9th	78.5	9th	108.1	80.6	94.4	?
	Beerbhoom } West Burdwan }	Raneegunge	—	—	—	Southerly	103.8	110.5	9th	77.8	8th	108.1	81.1	94.5	+7.9
	Moorsheadabad	Berhampore	29.559	29.626	—162	S	124.6	107.7	9th	78.3	8th & 9th May	101.2	79.8	90.5	+9.6
	Nudda	Krishnaghur	29.595	29.642	—132	SSE	172.8	106.8	9th	79.2	4th & 9th May	103.6	79.9	91.8	+7.7
	Jessore } Khoolna }	Jessore	29.627	29.661	—141	SSE	80.8	103.8	9th	79.4	6th	98.9	80.5	89.7	+6.5
	Chittagong	Chittagong	29.626	29.715	—141	SE	92.7	94.7	9th	74.5	8th	92.0	77.7	84.8	+5.0
	Chittagong Hill Tracts	Demagiri	—	—	—	—	—	—	—	—	—	—	—	—	—
	Backergunge	Barrisal	29.664	29.676	—135	SSW	97.8	97.3	9th May	77.8	5th	94.3	79.2	86.9	+5.8
	Noakholly	Noakholly	29.671	29.715	—62	N & SW	111.3	94.6	9th	77.8	5th	91.6	79.3	85.4	+5.4
EAST BENGAL.	Furzedpore	Furzedpore	29.642	29.681	—134	SW	132.6	100.5	9th	77.4	5th	95.0	79.0	87.0	+6.2
	Dacca	Dacca	29.658	29.681	—136	SSW	132.7	97.1	9th	77.2	3rd & 5th May	95.6	78.5	88.0	+4.8
	Commillah	Commillah	29.666	29.701	—122	SW	131.2	98.9	9th	76.7	3rd, 6th & 7th May	94.2	77.8	88.0	+4.8
	Mymensingh	Mymensingh	29.635	29.693	—150	Variable	97.0	96.2	9th	76.1	3rd	90.5	78.1	84.3	+5.2
	Bogra	Bogra	29.583	29.646	—140	Variable	88.3	101.3	9th	76.1	4th	94.0	78.1	86.1	+3.1
	Pubna	Serajgunge	29.610	29.637	—159	SE	103.8	98.6	9th	73.7	4th	92.6	78.4	85.5	+5.0
NORTH BENGAL.	Rajshahye	Rampore Beau- leah.	29.575	29.645	—141	S	110.6	103.8	9th	77.6	3rd & 9th May	90.7	79.3	88.0	+6.5
	Maldah	Maldah	29.632	29.633	—0.07	NE	74.0	106.3	9th	72.9	8th	100.8	78.9*	89.4*	—
	Dinapore	Dinapore	29.557	29.678	—140	ENE	115	98.1	8th	72.1	6th	91.4	75.3*	83.5*	+2.9*
	Rungpore	Rungpore	29.567	29.693	—127	E	99.1	94.8	9th	67.7	7th	90.9	73.8	82.3	+5.4
	Julpikoree } Cooch Behar }	Julpigoree*	29.560	29.648	—153	?	233.52	93.4	8th	?	?	91.2	?	?	?
	Darjeeling Hill Tracts	Darjeeling	22.598	—	—	ENE	145.6	67.6	8th & 9th May	63.1	3rd May	64.2	54.8	59.4	+4.9
NORTH BHAR.	Purneah } North Bhagulpore }	Purneah	29.525	29.636	—135	ENE	136.9	106.3	9th	72.4	8th	101.4	78.0	89.7	+6.9
	Mosufferpore	Mosufferpore	29.425	29.603	—	E	161.22	104.9	8th	80.2	3rd & 8th May	101.3	80.3	91.4	—
	Durbhunga	Durbhunga	29.469	29.633	—144	ENE	149.3	105.4	9th	?	?	103.6	?	?	?
	Chumparon	Motihari	29.409	29.635	—126	ESE	179.3	106.2	7th & 9th May	66.8	6th May	103.6	77.3	90.5	+4.0
	Sarun	Chupra*	29.428	29.621	—133	Easterly	164.2	106.3	3rd	76.6	8th	104.1	79.2	91.7	+5.1
	Shahabad	Dehree* } Buxar } Arrah }	29.308	29.656	—0.72	C. & SW	125.2	111.4	6th	78.0	5th	110.6	80.7	95.6	+7.6
SOUTH BHAR.	Gya	Gya	29.385	29.625	—114	WNW	125.5	107.9	6 & 7	76.3	8th	100.8	79.8	93.3	+5.4
	Patna	Patna	29.418	29.612	—124	NE	68.2	109.4	6 & 7	76.6	8th	103.1	79.6	93.8	+6.1
	South Bhagulpore } Monghyr }	Bankipore	29.255	29.626	—110	WNW	111.7	111.6	6 & 7	79.8	8th	109.8	83.5	96.7	+7.0
	South Bhagulpore } Monghyr }	Bhagulpore	29.428	29.609	—147	E	115.3	110.6	7th	78.2	8th & 9th May	108.7	80.1	94.4	+7.6
	Sonthal Pergunnahs	Doomka	29.126	29.614	—136	S	140.7	106.7	8th	76.5	8th	104.6	80.3	92.5	+7.2
	Hazaribagh	Hazaribagh	27.670	29.623	—0.87	SSW	255.3	105.5	5th	77.5	3rd & 8th May	102.8	78.4	90.6	+5.7
NORTH BHAR.	Lohardugga } Manbhoom }	Ranchee	27.564	29.618	—0.67	Calm	146.4	106.0	5th	74.9	9th	104.1	76.6	90.4	+8.4
	Singbhoom	Chyabasa	28.874	29.631	—0.67	W&W	50.0	111.3	6th & 7th May	75.7	8th	110.5	81.5	90.0	+6.2
	Assam	Sibsagor	29.306	29.731	—140	NE	—	98.6	7th	70.4	3rd	90.8	72.8	81.6	+5.2
	Assam	Dhubri	29.582	29.709	—136	Northerly	112.2	91.2	3rd	71.6	8th	88.0	76.0	82.0	+4.0
	Silchar	Silchar	29.669	29.715	—1.27	Calm	—	102.6	4th	73.3	5th	95.2	74.9	85.0*	+7.3*

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the 10 years. The humidity of the atmosphere is expressed in percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number in the district denoting the average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the 10 years in the district denoting the returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 9th of May 1890.

DISTRICT OBSERVATIONS.															Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Date.	Summary at 9 A.M.	Average cloud amount at 9 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.											
				Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1889.			Average number of rainy days.	Normal number of rainy days.				
						Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
29	4.6	Nil	Nil	0.04	Nil	0.08	-0.08	77.02	58.92	+18.70	0.0	1.2	Pooree	Pooree	ORISSA.		
30	0.1	Nil	Nil										Gopalpore	False Point			
31	5.9	Nil	Nil														
1	3.0	Nil	Nil	0.74	Nil	0.81	-0.81	68.44	55.73	+12.71	0.0	1.2	Cuttack	Cuttack	BALASORE.		
2	0.0	Nil	Nil	1.13	Nil	1.37	-1.37	53.03	58.71	-5.68	0.0	2.0	Balasore	Balasore			
3	0.0	Nil	Nil	1.41	Nil	1.58	-1.58	60.00	68.30	-8.30	0.0	1.9	Saugor Island	South-West Midnapore			
4	0.4	Nil	Nil	1.53	Nil	1.80	-1.80	47.93	57.64	-9.71	0.0	1.9	Midnapore	South 24-Pergunnahs	MIDNAPORE.		
5	0.7	0.03	0.13	1.69	0.30	1.99	-1.69	56.06	58.34	-2.28	0.4	2.3	Calcutta	24-Pergunnahs			
6	1.1	Nil	0.14	1.17	0.27	1.55	-1.38	46.67	52.85	-6.18	0.3	1.9	Burdwan	Howrah			
7	1.0	Nil	Nil	0.92	Nil	1.05	-1.05	57.57	56.36	+1.21	0.0	1.9	Bankura	Bankura	SOUTH-WEST BENGAL.		
8	0.0	Nil	Nil	0.70	0.03	0.91	-0.88	54.32	55.38	-1.06	0.0	1.8	Ranagunge	Reerbhoom			
9	2.7	Nil	0.09	1.30	0.00	1.45	-1.36	53.05	55.08	-2.03	0.3	2.0	Berhampore	West Burdwan			
10	3.1	0.03	0.16	1.39	0.21	1.85	-1.64	54.21	56.67	-2.46	0.8	2.3	Krishnagur	Moorshedabad	KRISHNAGUR.		
11	4.0	Nil	0.24	1.23	0.00	2.14	-1.54	58.52	62.01	-3.19	0.4	2.5	Jessore	Nuddea			
12	5.6	Nil	Nil	2.09	Nil	2.69	-2.69	107.20	122.20	-15.00	0.0	2.8	Chittagong	Jessore			
13	5.3	Nil	Nil	2.40	Nil	3.08	-3.08		122.20	-15.00	0.0	2.8	Chittagong	Khoolna	CHITTAGONG.		
14	1.6	Nil	Nil	1.80	0.26	2.23	-1.97	89.40	85.61	-2.21	0.0	2.7	Barrisal	Chittagong Hill Tracts			
15	3.3	Nil	Nil	1.94	0.33	2.73	-2.40	99.95	119.22	-19.27	0.0	2.8	Noakhally	Backergunge			
16	6.0	Nil	Nil	2.01	0.55	2.56	-2.01	69.09	65.95	+3.14	0.0	2.8	Furreehpore	Noakhally	NOAKHALLY.		
17	4.6	0.05	1.57	2.24	1.13	2.80	-1.67	84.74	71.22	+13.52	0.0	5.2	Dacca	Furreehpore			
18	6.1	1.17	1.51	2.61	1.85	2.51	-0.96	98.41	77.17	+21.24	1.4	2.7	Mymensingh	Dacca			
19	5.7	0.08	0.95	1.64	0.95	2.09	-1.05	70.64	62.92	+7.72	1.3	2.4	Bogra	Mymensingh	BOGRA.		
20	6.0	1.02	1.04	1.66	1.04	2.08	-1.04	62.44	69.92	+1.52	1.0	2.8	Serajunge	Bogra			
21	1.7	0.05	0.62	1.54	0.67	1.52	-0.85	59.38	58.62	+0.76	0.7	2.1	Rampore Beach	Pubna			
22	2.6	Nil	0.41	0.52	0.41	1.03	-0.63	40.66	57.36	-16.70	0.5	1.7	Maldah	Rajshahye	RAJSHAHYE.		
23	5.0	1.79	0.47	0.80	0.51	1.13	-0.62	59.34	60.50	-1.16	0.8	1.8	Dinapore	Maldah			
24	5.2	4.40	2.39	1.97	2.39	2.59	-0.20	92.06	81.54	+10.21	3.5	2.8	Rungpore	Dinapore			
25	3.3	0.36	1.63	2.46	1.53	3.05	-1.22	127.16	130.86	+6.30	3.6	3.5	Jalpigoree	Rungpore	RANGPORE.		
26	3.1	0.75	1.07	1.89	1.27	2.24	+0.97	139.81	131.30	+8.61	3.8	3.4	Darjeeling	Jalpigoree			
27	2.0	Nil	0.19	0.96	0.19	1.24	-1.05	75.96	62.20	+13.76	0.4	1.5	Purneah	Cooch Behar			
28	0.0	Nil	Nil	0.40	Nil	0.47	-0.47	49.23	45.54	+3.69	0.0	0.9	Mozufferpore	Darjeeling Hill Tracts	PURNAEA.		
29	0.0	Nil	Nil	0.51	Nil	0.59	-0.59	52.36	46.68	+5.67	0.0	1.0	Durbhunga	Purneah			
30	0.0	Nil	Nil	0.54	Nil	0.80	-0.80	64.11	49.12	+14.99	0.0	0.9	Motihari	North Bhagulpore			
31	0.0	Nil	Nil	0.57	Nil	0.62	-0.62	40.32	44.51	-4.19	0.0	1.0	Chupra	Chumparun	CHUPRA.		
1	0.0	Nil	Nil	0.21	Nil	0.27	-0.27	40.52	41.34	-0.82	0.0	0.6	Dehree	Sarun			
2	0.0	Nil	Nil	0.24	Nil	0.27	-0.27	37.38	42.95	-5.57	0.0	0.7	Gya	Shahabad			
3	0.0	Nil	Nil	0.42	Nil	0.48	-0.48	45.66	42.73	+2.93	0.0	0.8	Bankipore	Gya	GYA.		
4	0.0	Nil	Nil	0.42	Nil	0.47	-0.47	45.12	45.00	-1.12	0.0	1.0	Bhagulpore	Patna			
5	0.0	Nil	0.09	0.71	0.09	0.84	-0.75	55.38	53.41	+1.97	0.3	1.5	Doomka	South Bhagulpore			
6	0.0	Nil	Nil	0.62	Nil	0.64	-0.64	45.64	52.77	-7.13	0.0	1.2	Hazaribagh	Monghyr	HAZARIBAGH.		
7	0.0	Nil	Nil	0.37	Nil	0.37	-0.37	40.09	51.41	-11.32	0.0	1.1	Ranchi	Sonthal Pergunnahs			
8	0.0	Nil	Nil	0.50	Nil	0.62	-0.62	39.52	50.00	-10.48	0.0	1.5		Hazaribagh			
9	0.0	Nil	Nil	1.01	Nil	1.08	-1.08	49.88	55.36	-5.48	0.0	2.0	Chyebassa	Lohardugga	LOHARDUGGA.		
10	8.9	0.80											Sibsagar	Manbhoom			
11	0.0	4.01											Dhubri	Singbhoom			
12	7.3	0.10											Silchar	Assam	ASSAM.		

25 years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
 27 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall from 15th May 1889.	Average rain-fall from 15th May to date.
			Saturday, 3rd May.	Sunday, 4th May.	Monday, 5th May.	Tuesday, 6th May.	Wednesday, 7th May.	Thursday, 8th May.	Friday, 9th May.	Number of rainy days.	of rainfall week.				
ORISSA	Pooree	Pooree	...	...	...	...	...	...	...	Nil	Nil	Nil	0.51	82.03	53.78
		Khurdah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.73	81.00	59.30
		Banpur	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	79.08	61.30
		False Point	...	...	...	...	...	...	...	Nil	Nil	Nil	0.85	77.52	68.77
		Gop	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Cuttack	Satpara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Pipli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Jagatsingapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.02	76.19	69.11
		Banki	...	...	...	...	...	...	...	Nil	Nil	Nil	0.20	68.67	62.07
		Cuttack	...	...	...	...	...	...	...	Nil	Nil	Nil	0.90	77.58	69.36
	Balasore	Kendrapara	...	...	...	...	...	...	...	Nil	Nil	Nil	1.01	72.62	66.59
		Jajpore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.03	69.15	68.71
		Dharmasala	...	...	...	...	...	...	...	Nil	Nil	Nil	?	61.05	?
		Satpara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	73.78	?
		Chandbali	...	...	...	...	...	...	...	Nil	Nil	Nil	1.76	65.71	67.20
SOUTH-WEST BENGAL.	Midnapore	Bhuddrak	...	...	...	...	...	...	...	Nil	Nil	Nil	1.14	61.71	67.44
		Sorah	...	...	...	...	...	...	...	Nil	Nil	Nil	1.43	48.41	66.88
		Balasore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.32	60.38	64.47
		Jellapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.93	44.48	66.21
		Raripodah	...	...	...	...	...	...	...	Nil	Nil	Nil	1.05	67.51	68.09
	24-Pergunnahs	Contal	...	...	...	...	...	...	...	Nil	Nil	Nil	1.48	67.53	66.02
		Sangor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	1.37	67.69	72.24
		Tumlook	...	...	...	...	...	...	...	Nil	Nil	Nil	1.41	69.69	67.34
		Midnapore	...	...	...	...	...	...	...	Nil	Nil	Nil	2.05	47.83	64.80
		Ghattal	...	...	...	...	...	...	...	Nil	Nil	Nil	1.94	46.35	60.80
	Howrah	Kakrhaty	...	...	...	...	...	...	...	Nil	Nil	Nil	?	69.77	?
		Gurhaty	...	...	...	...	...	...	...	Nil	Nil	Nil	?	61.48	?
		Diamond Har-	...	...	...	...	...	...	...	Nil	Nil	Nil	1.87	64.74	63.81
		bour	...	...	...	...	...	...	...	Nil	Nil	Nil	0.30	58.45	?
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	1.74	54.20	62.51
	Hooghly	Alipore Jail	...	...	...	...	...	...	...	Nil	Nil	Nil	1.11	54.09	59.77
		Barrackpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	65.64	64.35
		Dum-Dum	...	...	...	...	...	...	...	Nil	Nil	Nil	0.16	59.85	67.05
		Baraset	...	...	...	...	...	...	...	Nil	Nil	Nil	1.05	67.09	61.81
		Buseerhat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Hurdwan	Howrah	...	...	...	...	...	...	...	1	0.08	0.08	1.71	60.03	58.31
		Moheraka	...	...	...	...	...	...	...	Nil	Nil	Nil	2.32	55.58	58.41
		(Ooloberiah.)	...	...	...	...	...	...	...	1	0.26	1.27	2.05	58.04	56.74
		Scrapore	...	...	...	...	...	...	...	1	0.20	0.34	2.36	53.80	53.05
		Hooghly	...	...	...	...	...	...	...	Nil	Nil	Nil	1.58	44.10	61.02
	Bankoora	Jehanabad	...	...	...	...	...	...	...	1	0.41	0.41	1.67	44.73	59.89
		Culna	...	...	...	...	...	...	...	Nil	Nil	Nil	1.46	49.24	54.01
		Burdwan	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	46.02	53.09
		Culwa	...	...	...	...	...	...	...	Nil	Nil	Nil	0.74	57.57	52.82
		Ranegunge	...	...	...	...	...	...	...	Nil	Nil	Nil	?	5.60	?
	Beechbloom	Manikur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Bankoora	...	...	...	...	...	...	...	Nil	Nil	Nil	0.95	53.04	56.05
		Bishenpore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.20	59.65	57.30
		Maliara	...	...	...	...	...	...	...	Nil	Nil	Nil	0.87	54.78	54.38
		Khatra	...	...	...	...	...	...	...	Nil	Nil	Nil	0.83	60.91	57.03
EAST BENGAL	Khooins	Jadas	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47.12	?
		Kotalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51.99	?
		Anda	...	...	...	...	...	...	...	Nil	Nil	Nil	?	41.34	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	60.82	?
		Raipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	59.60	?
	Jessore	Sonamukhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55.93	?
		Bh. Scory	...	...	...	...	...	...	...	Nil	Nil	Nil	0.82	60.85	67.21
		Rajampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.94	50.21	67.71
		Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	48.69	60.74
		Boipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	67.53	?
	Nadda	Murari	...	...	...	...	...	...	...	Nil	Nil	Nil	0.24	56.54	?
		Rahaghat	...	...	...	...	...	...	...	1	0.50	0.50	1.47	58.55	54.01
		Kishnagar	...	...	...	...	...	...	...	1	0.03	0.03	1.90	44.58	52.92
		Choodanga	...	...	...	...	...	...	...	1	0.03	0.11	2.18	52.84	58.99
		Meherpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	55.74	53.44
	Koochies	Koochies	...	...	...	...	...	...	...	1	0.25	0.25	1.87	60.78	62.31
		Satkira	...	...	...	...	...	...	...	Nil	Nil	Nil	0.11	59.07	65.70
		Bagirhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	58.41	70.45
		Khooins	...	...	...	...	...	...	...	1	1.02	1.15	2.46	60.55	63.87
		Nalipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Moorsheadabad	Rampal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Narail	...	...	...	...	...	...	...	1	0.76	1.10	2.17	67.79	64.44
		Jessore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.87	68.56	64.23
		Jhenidah	...	...	...	...	...	...	...	1	0.10	0.54	1.93	53.31	62.07
		Magorah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.37	61.87	58.77
	Chittagong	Bongong	...	...	...	...	...	...	...	Nil	Nil	Nil	1.43	49.98	65.87
		Kandi	...	...	...	...	...	...	...	Nil	Nil	Nil	1.19	60.90	65.74
		Berhampore	...	...	...	...	...	...	...	Nil	Nil	Nil	1.72	48.89	60.69
		Lalbagh	...	...	...	...	...	...	...	1	0.30	0.30	1.51	47.70	55.11
		Azimkunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0.29	55.61	55.61
	Chittagong Hill Tracts	Jungipore	...	...	...	...	...	...	...	1	0.06	0.06	1.37	67.40	53.94
		Lalgoin	...	...	...	...	...	...	...	Nil	Nil	Nil	1.32	67.40	53.94
		Jagunge	...	...	...	...	...	...	...	1	0.07	0.07	1.60	63.66	55.44
		Akhrigunf	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44.29	?
		Pathabari	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44.55	?
	Bacterkunge	Cox's Bazar	...	...	...	...	...	...	...	Nil	Nil	Nil	2.57	129.07	143.24
		Chittagong	...	...	...	...	...	...	...	Nil	Nil	Nil	2.81	84.36	101.77
		Kutubdia	...	...	...	...	...	...	...	Nil	Nil	Nil	?	118.02	?
		Satkanya	...	...	...	...	...	...	...	Nil	Nil	Nil	?	68.21	?
		Rangamati	...	...	...	...	...	...	...	1	0.37	0.37	2.25	73.95	94.87
	Bacterkunge	Rams	...	...	...	...	...	...	...	Nil	Nil	Nil	3.30	?	99.66
		Patunkhally	...	...	...	...	...	...	...	Nil	Nil	Nil	2.25	91.30	95.95
		Porospore	...	...	...	...	...	...	...	Nil	Nil	Nil	2.30	75.02	77.85
		Burrial	...	...	...	...	...	...	...	Nil	Nil	Nil	0.95	79.10	79.95
		Khola	...	...	...	...	...	...	...	Nil	Nil	Nil	2.19	87.62	91.15

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 1st of May 1890.	Average rainfall from 1st of May to date.
			Saturday, 3rd May.	Sunday, 4th May.	Monday, 5th May.	Tuesday, 6th May.	Wednesday, 7th May.	Thursday, 8th May.	Friday, 9th May.	Number of rainy days.	of week.				
WEST BENGAL.	Gournadi	Gournadi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	67.91	?
		Hauphal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	94.94	?
		Noakholly	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	2.45	111.51	118.27
	Furreedpore	Fenny	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.43	2.98	88.32	119.76
		Harishpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	86.32	?
		Kamganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.04	?	94.09	?
	Dacca	Madairpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.70	5.24	70.09	68.23
		Furreedpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.82	1.90	70.04	66.27
		Goalando	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	2.54	65.98	62.93
	Hill Tipperah	Munshigunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.07	2.77	85.20	82.12
		Dacca	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	2.48	80.44	69.66
		Narainkunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	2.95	89.48	71.84
	Tipperah	Manickgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.74	2.99	77.50	60.15
		Joydebpore	0.36	Nil	Nil	Nil	Nil	Nil	Nil	1	0.36	1.32	?	77.28	?
	Mymensingh	Agartola	1.35	1.28	Nil	Nil	Nil	Nil	Nil	2	2.63	3.43	3.53	57.56	75.80
		Comilla	Nil	0.03	Nil	Nil	Nil	Nil	Nil	1	0.03	0.83	2.90	66.59	88.89
		Chandpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.10	3.26	73.50	85.50
	Bogra	Brahmanberia	3.56	0.05	Nil	Nil	Nil	Nil	Nil	2	3.61	3.59	3.30	65.55	76.18
		Ramchandrapore	0.41	0.01	Nil	Nil	Nil	Nil	Nil	2	1.02	1.00	?	60.05	?
		Nasirnagar	4.30	Nil	Nil	Nil	Nil	Nil	Nil	1	4.30	4.30	?	56.80	?
	Mymensingh	Daudkandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55.44	?
		Kasba	2.40	Nil	Nil	Nil	Nil	Nil	Nil	1	2.40	4.50	?	69.03	?
		Laksham	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.75	?	78.50	?
	Pubna	Kishoregunge	0.30	0.54	Nil	Nil	Nil	Nil	Nil	2	0.83	1.08	3.18	78.86	82.16
		Atia (Tungat)	Nil	2.08	Nil	Nil	Nil	Nil	Nil	1	2.08	2.08	2.02	72.12	63.57
		Mymensingh	0.08	Nil	Nil	Nil	Nil	Nil	Nil	1	0.08	1.45	3.04	167.20	84.18
	Bogra	Jamalpore	3.21	Nil	Nil	Nil	Nil	Nil	Nil	1	3.21	5.31	2.70	97.69	72.08
		Netrokona	1.14	0.09	Nil	Nil	Nil	Nil	Nil	2	1.23	1.38	3.10	156.16	83.08
		Subornakhali	Nil	1.40	Nil	Nil	Nil	Nil	Nil	1	1.40	1.40	?	66.71	?
	Rajshahi	Durgapore	0.65	5.10	0.45	Nil	Nil	Nil	Nil	3	6.20	6.20	?	162.86	?
		Sherepore	Nil	2.12	Nil	Nil	Nil	Nil	Nil	1	2.12	2.12	?	101.35	?
		Desanganj	1.60	Nil	Nil	Nil	Nil	Nil	Nil	1	1.60	1.60	?	64.20	?
	Bogra	Pubna	0.25	Nil	Nil	Nil	Nil	Nil	Nil	1	0.25	0.25	2.19	83.55	61.76
		Serajunge	Nil	1.82	Nil	Nil	Nil	Nil	Nil	1	1.82	1.82	1.96	71.26	59.88
		Sherepore	Nil	0.31	0.07	Nil	Nil	Nil	Nil	2	0.38	0.38	2.06	66.10	65.31
	Rajshahi	Nowkhilla	Nil	2.24	Nil	Nil	Nil	Nil	Nil	1	2.24	3.24	1.75	70.86	69.29
		Bogra	Nil	0.08	Nil	Nil	Nil	Nil	Nil	1	0.08	0.08	2.32	75.42	66.81
		Fanchibi	Nil	0.08	Nil	Nil	Nil	Nil	Nil	1	0.08	0.08	1.87	79.08	69.61
	Maldah	Beaulah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.58	49.60	57.51
		Nattore	0.35	Nil	Nil	Nil	Nil	Nil	Nil	1	0.35	0.35	2.16	67.43	61.07
		Naogaon	Nil	1.52	Nil	Nil	Nil	Nil	Nil	1	1.52	1.68	0.82	61.03	54.57
	Dinapore	Lalpara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	?	40.92	?
		Manda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.98	?
		Maldah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.12	51.26	55.60
	Dinapore	Chanchal	0.82	Nil	Nil	Nil	Nil	Nil	Nil	1	0.82	0.82	0.94	30.01	29.67
		Gajol	0.12	Nil	Nil	Nil	Nil	Nil	Nil	1	0.12	0.12	?	40.31	?
		Steganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	52.86	?
	Rungpore	Mehadebpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	1.31	54.58	60.04
		Churamon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.89	51.94	55.01
		Raigunge	Nil	0.34	Nil	Nil	Nil	Nil	Nil	1	0.34	0.34	1.69	53.26	61.76
	Rajshahi	Dinapore	0.24	0.16	Nil	0.60	Nil	Nil	Nil	3	1.00	1.90	1.34	73.80	65.11
		Raichakhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.44	63.04	53.81
		Thakurgaon	1.27	2.69	0.85	Nil	Nil	Nil	Nil	3	4.81	4.81	?	95.11	?
	Jalpigore	Bhawanigunge (Gyabanda)	2.02	0.80	Nil	0.40	Nil	Nil	Nil	3	3.22	3.52	1.95	97.21	68.34
		Rungpore	0.07	1.34	0.28	1.90	Nil	Nil	Nil	4	3.59	3.59	2.19	61.01	71.56
		Kurigram	0.84	0.11	0.23	0.37	Nil	Nil	Nil	4	1.55	1.55	3.64	98.34	84.03
	Jalpigore	Bagdoga	0.23	0.04	0.62	0.37	Nil	Nil	Nil	3	0.89	0.89	2.65	91.59	92.81
		(Niphamari)	1.98	3.56	0.82	Nil	Nil	Nil	Nil	3	6.36	6.36	?	90.13	?
		Ulupore	0.01	0.06	0.03	0.70	0.00	Nil	Nil	2	0.78	0.78	3.01	129.97	126.17
	Cooch Behar	Alipore	0.02	0.02	0.35	0.70	0.00	Nil	Nil	4	0.88	0.88	?	129.75	?
		Pallacotta		Nil	0.02	0.02	0.35	0.70	0.00	Nil	2	0.77	0.77	?	136.29	?
		Debiganj		Nil	Nil	1.70	Nil	Nil	Nil	Nil	1	1.70	1.70	?	95.06	?
	Darjeeling Hill	Bhagalpore (Nagrakati)	Nil	Nil	0.14	1.40	0.17	0.05	Nil	2	1.76	1.76	?	146.40	?
		Dinhat	Nil	0.12	0.08	1.10	0.25	Nil	Nil	4	1.55	1.55	3.05	107.47	103.69
		Cooch Behar	0.08	Nil	3.96	0.25	Nil	Nil	Nil	2	4.04	4.04	3.84	138.02	129.82
	Darjeeling Hill	Mickilgunge	0.03	0.01	1.22	0.17	0.05	0.02	Nil	5	1.50	1.50	2.74	129.38	121.29
		Matabhanga	0.03	0.01	0.01	0.20	1.52	0.20	Nil	3	1.73	1.73	4.16	301.69	268.79
		Buxa	0.08	0.07	0.33	0.25	0.17	0.20	Nil	4	0.94	0.94	0.87	127.10	160.40
	Purneah	Darjeeling	0.01	0.01	0.30	0.25	0.17	0.20	Nil	4	0.73	0.73	2.44	134.14	118.28
		Kalimpong	0.03	0.05	0.03	0.28	0.20	0.40	Nil	4	0.89	0.89	1.45	94.08	91.08
		Kurseong	0.04	0.14	0.37	0.70	0.10	0.40	Nil	6	1.75	1.75	?	74.47	?
	North Bhagalpore	Kissongunge	0.20	Nil	0.75	Nil	Nil	Nil	Nil	2	0.95	0.95	1.59	105.98	74.99
		Arrarrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.64	80.20	67.94
		Purneah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.12	63.82	65.07
	Durbhunga	Gondwara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Balarampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Mattari	Nil	Nil	Nil	1.75	Nil	Nil	Nil	1	1.75	1.75	?	?	?
	Mozufferpore	Kailaganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.86	61.71	53.38
		Maddapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.01	65.03	50.84
		Scopool	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.17	?
	Mozufferpore	Protaganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Tajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.03	42.65	44.83
		Durbhunga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.50	50.47	47.77
	Mozufferpore	Madhubani	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.04	64.10	47.52
		Bahera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70.09	?
		Koshera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55.89	?
	Mozufferpore	Sitamarhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	66.36	45.78
		Mozufferpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.26	48.02	47.55
		liajipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	42.69	43.39
	Mozufferpore	Para	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	37.89	?
		Mahua	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	41.03	?
		Papri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	48.72	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 1st of May 1889.	Average rainfall from 1st of May to date.
			Saturday, 3rd May.	Sunday, 4th May.	Monday, 5th May.	Tuesday, 6th May.	Wednesday, 7th May.	Thursday, 8th May.	Friday, 9th May.	Number of rainy days.	Rainfall of week.				
NORTH BEHAR—continued.	Chunpuran...	Motihari...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.06	75.52	47.00
		Bettiah...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.04	52.69	50.66
		Bogaha...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	71.15	?
SOUTH BEHAR	Shahabad	Burhanpur...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51.94	?
		Gopalgunge...	...	...	...	...	...	...	...	Nil	Nil	Nil	1.06	85.73	45.32
		Nowan...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	44.45	45.48
	Gya	Chuprah...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.30	40.90	41.80
		Buxar...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.22	47.74	39.65
		Dehree...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	43.66	41.23
		Bhaboah...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.33	38.61	43.40
		Sasseram...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.28	30.43	41.86
		Arrah...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	42.85	41.71
	Patna	Mohaniah...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Aurangabad...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.17	85.73	44.02
		Gya...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.17	40.20	44.06
		Nowadsh...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.41	39.72	41.78
		Jehanabad...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.32	53.77	41.39
		Arwal...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	34.58	?
		Dandwagar...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	26.69	?
		Sherrghati...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29.29	?
CHUTTA NAG-PUR.	Monghyr	Rajauli...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	17.94	?
		Kajauli...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	31.90	?
		Patna...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.38	51.60	43.34
	South Bhagulpore.	Dinapore...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.25	43.59	43.53
		Bachar...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.62	41.39	43.72
		Bachar...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.65	36.93	41.37
	Sonthal Pergunnahs.	Bickram...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44.23	?
		Hile...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35.64	?
		Bogoceral...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.43	48.18	41.78
	Singbhoom	Monghyr...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.57	41.78	43.36
		Jamui...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.47	39.58	43.04
		Gogri...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	59.19	?
CHUTTA NAG-PUR.	Lohardugga	Sheikpura...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.33	?
		Bhagulpore...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.56	45.12	44.35
		Banks...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.33	40.33	43.30
	Singbhoom	Kalgang...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46.97	?
		Bongach...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Rajmehal...	...	...	...	...	...	...	...	1	0.07	0.07	1.44	60.73	55.37
	Singbhoom	Gedda...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	49.77	49.55
		Pakour...	...	...	...	...	...	...	...	1	0.45	0.45	0.64	73.40	59.00
		Nya Doozka...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.62	59.42	50.35
	Singbhoom	Deokhur...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.72	41.22	53.47
		Jamara...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.76	40.57	51.23
		Mohagama...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	59.03	?
CHUTTA NAG-PUR.	Singbhoom	Nankat...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57.63	?
		Pachamba...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.49	39.24	49.95
		(Giridi)...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.50	49.51	49.42
	Singbhoom	Hazaribagh...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.77	36.98	49.35
		Semanturah...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.44	40.97	40.97
		Mahudi Hill's...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.99	43.40	65.09
	Singbhoom	Jhoomra Hill's...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	32.63	?
		Barhi...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47.99	?
		Chatra...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	40.95	?
	Singbhoom	Karagdeha...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Ramghar...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Lohardugga...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.26	46.73	53.19
CHUTTA NAG-PUR.	Singbhoom	Ranchi...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.65	46.23	55.63
		Palamow...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.20	33.30	44.79
		Silli...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	34.20	?
	Singbhoom	Balumat...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Hosseinabad...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44.79	?
		Garwah...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29.43	?
	Singbhoom	Chyabana...	...	...	...	...	...	...	...	Nil	Nil	Nil	1.06	40.88	55.48
		Chakradhar...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		pore...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55.39	?
	Singbhoom	Ghatella...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58.02	?
		Baharagura...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Purelia...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.81	44.96	52.71
CHUTTA NAG-PUR.	Singbhoom	Gobindpore...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.42	34.98	47.42
		Magnanath...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46.32	?
		pore...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Singbhoom	Lohardugga...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45.33	?
		Jhalda...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	51.80	?
		Chus...	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50.42	?

Explanation.—... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 13th May 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
9TH OF MAY 1890.**

VERY unusual weather conditions have prevailed throughout the week, pressure, temperature and rainfall all differing largely from the normal. Over Bengal very little change has taken place, wind circulation being day after day south or south-west in Lower Bengal, south-east or east over the northern half of the province, and west in Chutia Nagpur; the sky has generally been clear and temperature high; rainfall has been almost entirely confined to East and North Bengal.

At the beginning of the week pressure was about a tenth of an inch below the normal, after a moderately rapid fall in the north-west, but on Sunday and Monday, the 4th and 5th, it again rose, and was very nearly normal on the latter. Temperature was more than 5° above the normal over the northern half of Bengal, but as rain was falling in North Bengal and scattered showers in East Bengal during the first three days of the week, the high temperatures were during these days chiefly confined to Behar, Chutia Nagpur, and South-West Bengal. After the 5th no more rain fell in East Bengal, but the somewhat scattered rainfall in North Bengal continued throughout. On the 6th a very rapid fall of pressure set in over Bengal, Burmah, and the Bay, resulting by the end of the week in a very large defect over the whole of this area. On the 7th weather became stormy on the Burmah coast. The fall of pressure was very rapid, wind force increased, and circulation became cyclonic round the depression, the centre of which was to the west of Diamond Island. Rain, generally heavy, fell at the Burmah stations. Defect had increased to nearly a quarter of an inch over the whole of East and North Bengal. The depression crossed the coast shortly afterwards, moving in a north-north-easterly direction, and broke up in Burmah on the following day. The chief influence of this storm on the weather in Bengal was seen in the calm weather while it was forming off Diamond Island, and afterwards when it had passed inland in the very strong winds which blew over East and South-West Bengal on Friday. The rain which has since been falling in East Bengal may also be due to the disturbed condition of the atmosphere consequent on the breaking up of the storm. During the last two days pressure was steadily rising, but defect was still over two-tenths of an inch in North Bengal, and was generally more than three-twentieths of an inch elsewhere. Temperature continued to be largely in excess, nearly 10° in South-West Bengal and from 6° to 10° elsewhere.

Pressure—As stated above, has been generally below the normal. Commencing with a defect of a tenth of an inch, it rose till almost normal, after which it fell very rapidly, giving in two or three days a defect varying from 0.15 inch to 0.25 inch. Means are, therefore, very largely in defect everywhere, generally more than a tenth of an inch, and in South-West, East and North Bengal and Assam nearly 0.15 inch.

Temperature—Has continued largely in excess throughout the week, and some very high maximum temperatures have been registered. The following stations have all reported temperature over 110° some time during the week:—Cuttack, Midnapore, Bankoora, Ranee-gunge, Dehree, Gya, Bankipore, and Chyebassa. In Behar these highest temperatures were on the 6th and 7th, but elsewhere on the 9th. With the exception of the coast stations, temperature has at times been everywhere over 100° . The mean excess is almost everywhere more than 5° , and in South-West Bengal ranges from 7° to 9° . The mean for South-West Bengal is 92° , South Behar 94.2° , and Chutia Nagpur 90.5° . Elsewhere it is under 90° . The largest mean excess is 7° for South-West Bengal, South Behar is next 6.8° , Chutia Nagpur 6.1° , East Bengal, North Behar, and Assam more than 5° , North Bengal 4.2° , and Orissa 3.5° .

Rainfall—Has been chiefly confined to East and North Bengal. In the latter showers fell every day of the week, and in the former during the first three days, while in the other districts very scattered rain was received. In Orissa and Chutia Nagpur no rain fell, in Behar less than a tenth of an inch, in South-West Bengal one-tenth, in North Bengal 1.18 inches, and East Bengal .55 inch. In South-West and East Bengal defect is about an inch and-a-half, and in the other districts about half an inch. The heaviest falls in North Bengal were in Rungpore and Cooch Behar, Ulipore 6.4 inches, Mickligunge 4 inches, Rungpore 3.6 inches, and Bhowanigunge 3.5 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 9th of May 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE						RAINFALL.										
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1880.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	110.4	79.7	95.3	81.8	88.6	+3.5	Nil	0.87	-0.87	0.0	1.5	-1.5	Nil	1.00	64.78	57.75	
South-West Bengal ...	110.5	77.8	103.2	80.0	92.0	+7.1	0.10	1.44	-1.34	0.3	2.1	-1.8	0.23	1.60	55.16	58.21	
East Bengal	100.5	74.3	93.0	78.6	85.8	+5.3	0.55	2.13	-1.58	0.5	2.9	-2.4	1.03	2.73	84.00	84.00	
North Bengal	101.3	67.7	93.1	77.0	85.0	+4.2	1.18	1.60	-0.42	1.8	2.5	-0.7	1.20	2.00	78.81	76.61	
North Behar	106.3	66.8	103.0	78.0	90.8	+5.6	0.06	0.64	-0.58	0.1	1.1	-1.0	0.06	0.80	58.38	51.21	
South Benar	111.6	74.0	107.0	80.5	94.2	+6.8	0.62	0.42	-0.40	0.1	1.0	-0.9	0.02	0.40	44.77	45.61	
Chutia Nagpur	106.0*	74.9*	103.4*	77.5*	90.5*	+6.1*	Nil	0.57	-0.57	0.0	1.3	-1.3	Nil	0.60	44.16	52.11	
Assam	102.6*	70.4	91.4	74.6	82.9	+5.5											

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 13th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 4th to 10th May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	4th ...	29.741	89.0	97.2	16.4	80.8	91.6	82.5	.989	78.9	67	Nil
" " ...	5th ...	.722	90.2	100.0	19.6	80.4	94.6	82.5	.948	77.6	60	"
" " ...	6th ...	.667	91.5	103.0	23.0	80.0	94.6	83.5	.999	79.2	63	"
" " ...	7th ...	.567	92.4	104.0	23.2	80.8	94.6	82.5	.948	77.6	59	"
" " ...	8th ...	.557	93.6	106.2	25.2	81.0	95.6	82.5	.935	77.2	56	"
" " ...	9th ...	.607	90.6	100.0	18.8	81.2	93.4	81.5	.915	76.6	58	"
" " ...	10th ...	.636	92.7	103.0	20.7	82.3	94.6	81.5	.900	76.1	56	"

The mean 10 A.M. pressure of the seven days Inches.
29.642

The mean temperature of the seven days 91.4

The extreme variation of temperature 26.2

The maximum temperature 106.2

The mean 10 A.M. relative humidity of the seven days %
60

The total fall of rain from 4th to 10th May 1890 Inches.
Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 13th May 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 26th April 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 26th April 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 16.4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 4.1 lower than the average rate of the corresponding weeks of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	25.1	19.1	19.1	19.0	20.1	20.5	16.4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.		5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.
Burdwan	25.9	10.7	30.5	22.9	Narsinganj	20.7	24.8	41.4	24.8
Midnapore	10.8	10.8	15.5	17.0	Chittagong	4.7	9.4	2.3	11.7
Hughli and Chinsurah	23.0	24.4	24.6	34.5	Comillah	50.1	...	11.6	30.8
Serampore	33.4	11.8	37.3	9.8	Patna	6.8	13.0	7.8	6.2
Utterpara	9.4	...	18.9	9.4	Gya	16.4	19.1	15.7	21.9
Howrah	16.6	14.3	17.8	13.2	Arrah	13.2	10.8	14.4	16.8
Bali	7.0	14.0	16.5	7.0	Muzafferpore	9.7	12.2	13.4	10.9
Kishnagar	9.5	18.9	22.7	3.8	Jurbhanga	18.1	22.0	21.2	21.2
Ranaghat	18.0	29.9	24.0	12.0	Chupra	14.1	3.0	9.1	22.1
Santipore	14.0	17.5	3.5	7.0	Bhugulpore	10.9	14.5	21.7	18.1
Jessore	12.2	18.4	18.4	6.1	Monghyr	20.8	17.2	25.3	19.0
Rampore Beaulah	20.3	23.6	31.5	34.2	Purneah	13.9	17.3	24.2	38.1
Darjiling	14.8	14.3	14.8	7.4	Poori	12.6	16.8	21.0	18.9
Dacca	8.4	14.9	15.6	23.4					

It will be seen that last week the highest birth-rate was returned from Purneah (38.1) and the lowest from Kishnagar (3.8).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 29.2 per 1,000 of the population. The rate of the week is 3.8 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, — *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	34.1	23.3	23.0	19.6	24.8	25.4	29.2

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.		5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.
Burdwan	27.5	32.0	29.0	22.9	Narsinganj	8.3	41.4	12.4	8.3
Midnapore	12.4	34.1	20.1	13.9	Chittagong	4.7	9.4	9.4	21.1
Hughli and Chinsurah	32.8	60.7	55.8	54.2	Comillah	27.0	19.3	11.6	11.6
Serampore	37.3	31.4	47.1	40.1	Patna	11.4	23.9	39.6	40.6
Utterpara	56.6	28.3	...	47.2	Gya	79.2	64.5	44.4	34.2
Howrah	22.3	21.8	30.9	10.5	Arrah	9.6	12.9	28.7	33.5
Bali	31.6	24.6	21.1	10.5	Muzafferpore	13.4	12.2	18.2	19.5
Kishnagar	7.6	17.0	11.4	7.6	Jurbhanga	17.3	18.1	28.3	24.4
Ranaghat	6.0	15.0	4.6	...	Chupra	12.1	2.0	9.1	22.1
Santipore	10.5	8.7	3.5	3.3	Bhugulpore	8.1	23.5	20.9	34.4
Jessore	14.4	6.1	42.8	18.4	Monghyr	23.6	28.0	28.9	37.1
Rampore Beaulah	34.2	30.4	36.6	36.8	Purneah	17.3	31.2	34.6	31.2
Darjiling	25.0	74.1	50.3	20.7	Poori	30.9	55.7	68.7	44.1
Dacca	13.0	22.1	15.6	35.3					

It will be seen that last week the highest mortality occurred in the town of Darjiling (103·7) and the lowest in Santipore (5·3). No deaths were registered during the week in Ranaghat town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Hughli and Chinsurah	... 31·2	Darjiling	... 88·9	Serampore	... 17·7
Patna City	... 20·8	Utterpara	... 37·7	Bhagulpore	... 11·8
Chupra	... 5·0	Arrah	... 32·3	Monghyr	... 10·8
Bhagulpore	... 4·5	Rampore Beaulah	... 31·5		
Howrah	... 2·9	Purneah	... 27·7		
		Poori	... 25·2		
		Gya	... 24·6		
		Monghyr	... 20·8		
		Durbhanga	... 20·5		

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5·6 from cholera, against 5 per 1,000 in the preceding week; 7 from small-pox, against 1·6; 15·2 from fever, against 14·6; 1·7 from bowel-complaints, against 2·4; 4 from injury, against 2; and 5·6 from other causes, against 5·2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 30·7	Hindus	... 29·4	Under 1 year	... 196·7
Females	... 27·6	Mahomedans	... 29·5	1 and under 5 years	... 37·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	111	Other classes	... 76·8	5 " 10 "	... 16·9
				10 " 15 "	... 9·2
				15 " 20 "	... 15·4
				20 " 30 "	... 18·5
				30 " 40 "	... 23·4
				40 " 50 "	... 20·8
				50 " 60 "	... 31·5
				60 years and upwards	... 83·1

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 12th May 1890.

DISTRICTS.	POPULATION.		BIRTHS.				MORTALITY ACCORDING TO—										Sex.		
	Males.	Females.	Total.	NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male births to every 100 female births.	Disease.										Males.	Females.
				Males.	Females.			DEATHS FROM—											
								Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.		
RATIO PER 1,000 OF POPULATION PER ANNUM.																			
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DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.										Age.									
		Deaths among—										Ratio per 1,000 of Population per Annum.									
		Ratio per 1,000 of Population per Annum.										Deaths									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.
Burdwan	Burdwan	11	4	24.3	26.3	...	...	...	...	...	...	4	1	1	1	1	1	1	1	1	1
Midnapore	Midnapore	8	1	16.0	7.3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Hughli	Hughli and Chinsurah	27	6	25.5	20.9	...	...	...	...	...	...	4	4	...	...	...	...	...	...	...	...
Serampore	Serampore	23	2	47.4	110.2	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...
	Utterpara	5	...	48.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Howrah	Howrah	28	5	31.4	12.7	...	...	...	...	...	...	9	3	3	...	...	...	...	...	...	...
	Balli	3	...	11.6	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...
Naddea	Kishinagar	3	1	9.4	6.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ranaghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Santipore	3	...	7.5	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Jessore	Jessore	3	...	34.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Raschallye	Rampore Raschallye	6	8	31.5	42.4	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
Darjiling	Darjiling	14	...	135.5	...	...	...	...	...	...	...	3	1	...	...	...	...	...	...	...	...
	Dacca	22	17	28.4	22.5	...	...	...	...	...	...	9	5	5	...	...	...	...	...	...	...
	Narainganj	...	3	15.9	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Chittagong	Chittagong	1	8	9.0	27.2	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...
Tipperah	Comilla	1	2	8.7	14.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Patna	Patna City	89	45	35.0	57.2	...	...	...	...	...	...	10	11	10	8	7	18	19	12	10	20
Gya	Gya	44	6	28.1	19.4	...	...	...	...	...	...	12	4	4	...	2	4	1	6	6	11
Shahabad	Arrah	19	9	31.9	57.7	...	...	...	...	...	...	4	2	3	...	4	5	2	5	5	5
Monfarpore	Monfarpore	13	3	22.5	12.5	...	...	...	...	...	...	6	1	2	...	1	2	...	...	...	...
Burhanga	Burhanga	20	11	21.5	32.6	...	...	...	...	...	...	9	7	2	1	2	1	3	2	2	2
Saran	Chupra	17	5	22.3	21.8	...	...	...	...	...	...	3	6	1	1	1	3	1	1	2	3
Bhagulpore	Bhagulpore	25	13	22.7	39.2	...	...	...	...	...	...	5	6	2	2	3	5	3	3	3	7
Monohyr	Monohyr	29	12	33.7	49.6	...	...	...	...	...	...	6	9	1	...	2	2	4	4	1	13
Purneah	Purneah	2	7	11.3	64.3	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...
Poori	Poori	21	...	41.3	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
	TOTAL	428	167	29.4	29.5	76.8	...	...	...	...	...	96	67	36	17	24	75	79	50	47	105
				29.4	29.5	76.8	...	...	...	...	...	187	87.3	16.9	9.2	15.4	18.5	23.4	20.8	31.3	83.1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

W. H. GREGG, Dip. Publ. Health, Camb.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 10th May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 10TH MAY 1890.			WEEK ENDING SATURDAY, THE 11TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	269	75,185	1,189	163	43,425	625
Jute ...	23	12,650	187	7	3,275	51
Firewood ...	149	93,276	1,359	51	27,725	413
Other articles ...	707	1,95,060	2,776	535	1,60,700	2,199
Total ...	1,148	3,76,160	5,511	756	2,35,125	3,288

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	275,945	2,66,774 8 0	24,41,653 30	6,31,063 12 0	21,100 8 0	9,18,947 12 0	66,091½	160,491½	166,582½
Or per mile of railway ...	.....	174 14 0	.....	413 10 10	13 13 5	602 6 3	.....	.....	.....
For previous 17 weeks of half- year ...	4,383,863	40,80,646 7 0	4,49,05,071 10	1,04,49,165 0 0	3,38,364 9 9	1,87,68,176 0 9	1,115,106	1,636,554½	2,751,660½
Total for 18 weeks ...	4,657,908	52,47,420 15 0	4,73,46,765 0	1,10,80,228 12 0	3,59,474 1 9	1,66,87,123 12 9	1,181,197½	1,737,045½	2,918,242½
COMPARISON.									
Total for corresponding week of previous year ...	285,138½	2,64,900 10 0	27,81,886 0	6,66,675 13 6	18,962 13 6	9,49,729 5 0	63,557	164,966	167,523
Per mile of railway correspond- ing week of previous year ...	.....	173 11 4	.....	437 0 4	11 13 5	622 9 1	.....	.....	.....
Total to corresponding date of previous year ...	4,782,409	54,46,606 0 2	4,62,68,484 0	1,00,06,149 15 8	2,96,839 5 5	1,67,39,655 5 1	1,187,424	1,747,875	2,934,600

*Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 4TH MAY 1890.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,525½	Rs. 9,49,729	Rs. 623	1,525½	Rs. 9,18,948	Rs. 602	1,525½	Rs. 46,13,778	Rs. 605	1,525½	Rs. 45,18,536	Rs. 592	.....	Rs. 95,236

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,601	6,099 4 0	49,655 10	4,127 15 0	41 4 0	10,268 7 0	1,511	883	2,394
Or per mile of railway ...	238	106 10 1	866 30	72 2 8	0 11 6	179 8 3	.....	.....	.....
For previous 17 weeks of half-year ...	228,481	1,16,782 15 0	8,33,540 0	53,045 8 0	657 12 0	1,70,486 3 0	28,498½	12,047	40,545½
Total for 18 weeks ...	242,082	1,22,882 3 0	8,83,195 10	57,173 7 0	699 0 0	1,80,754 10 0	30,009½	12,930	42,939½
COMPARISON.									
Total for corresponding week of previous year ...	11,530½	5,302 15 0	40,955 10	3,626 11 0	39 11 9	8,969 6 6	1,486	1,354	2,840
Per mile of railway corresponding week of previous year ...	202	92 11 4	873 20	63 6 6	0 11 1	166 12 11	.....	.....	.....
Total to corresponding date of previous year ...	259,544½	1,40,555 7 0	7,48,557 30	44,692 8 0	1,414 11 9	1,86,562 10 9	32,229	12,804	45,033

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,969	157	57½	10,268	180	57½	49,968	171	57½	52,124	182	3,156	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,972	5,293 15 0	11,081 0	406 4 0	8 6 0	5,708 7 0	890	78	968
Or per mile of railway ...	.....	237 14 9	.....	18 4 2	0 6 0	256 8 11	.....	.....	.....
For previous 17 weeks of half-year ...	378,882	1,02,817 6 0	2,48,188 30	8,354 6 0	177 5 0	1,11,549 1 0	15,068	1,747	16,815
Total for 18 weeks ...	398,854	1,08,111 2 0	2,59,219 30	8,760 10 0	183 11 0	1,17,657 8 0	15,958	1,825	17,783
COMPARISON.									
Total for corresponding week of previous year ...	21,124½	5,478 7 9	9,786 30	368 4 6	10 1 0	5,856 12 9	911	87	998
Per mile of railway corresponding week of previous year ...	.....	246 3 7	.....	16 8 10	0 7 3	263 3 8	.....	.....	.....
Total to corresponding date of previous year ...	421,337½	1,11,533 0 3	1,72,756 10	6,259 15 6	128 3 0	1,17,921 2 3	16,607	1,163	17,770

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,857	263	22½	5,708	257	22½	50,755	339	22½	55,794	323	.....	968

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., Dacca, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 26th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	147,556	75,300 0 0	5,87,970 0	97,320 0 0	15,000 0 0	1,88,210 0 0	22,997	20,533	43,530
Or per mile of railway...	198	101 0 0	787 0	130 0 0	12 0 0	253 0 0	.....	.....	.....
For previous 16 weeks of half-year...	2,545,160	12,53,000 0 0	91,89,110 0	16,64,700 0 0	3,05,034 0 0	*32,22,752 0 0	359,861	472,846	832,607
Total for 17 weeks...	2,692,716	13,28,300 0 0	97,77,080 0	17,62,020 0 0	3,20,034 0 0	34,10,902 0 0	382,848	502,975	885,823
COMPARISON.									
Total for corresponding week of previous year...	126,557	66,203 0 0	5,42,297 0	84,323 0 0	23,718 0 0	1,74,444 0 0	21,583	23,205	44,788
Per mile of railway corresponding period of previous year...	168	98 0 0	806 0	126 0 0	†11 0 0	235 0 0	.....	.....	.....
Total to corresponding date of previous year...	2,491,686	12,93,410 0 0	84,80,439 0	14,23,354 0 0	3,62,282 0 0	30,19,046 0 0	365,329	412,660	777,989

* Audited up to week ending 1st March 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,74,444	259	747	1,88,210	253	673	6,13,538	228	747	6,68,358	224	54,820	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	24,140	8,610 0 0	45,650 0	3,010 0 0	170 0 0	11,790 0 0	3,735	1,937	5,672
Or per mile of railway...	193	80 0 0	365 0	24 0 0	1 0 0	94 0 0	.....	.....	.....
For previous 16 weeks of half-year*	448,804	1,53,034 0 0	8,72,247 0	49,511 0 0	923 0 0	2,05,468 0 0	58,167	30,384	88,551
Total for 17 weeks...	472,944	1,63,644 0 0	9,17,897 0	52,521 0 0	1,093 0 0	2,17,258 0 0	61,962	32,901	94,203
COMPARISON.									
Total for corresponding week of previous year...	27,714	9,294 0 0	71,941 0	5,400 0 0	41 0 0	14,735 0 0	3,733	2,145	5,838
Per mile of railway corresponding period of previous year...	222	75 0 0	678 0	43 0 0	.....	118 0 0	.....	.....	.....
Total to corresponding date of previous year...	485,356	1,62,816 0 0	959,286 0	53,844 0 0	4,558 0 0	2,28,218 0 0	62,425	32,633	95,059

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,735	119	125	11,790	94	125	64,477	101	125	45,756	92	.....	4,731

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,560	5,910 0 0	15,870 0	1,320 0 0	100 0 0	7,830 0 0	2,480	624	3,104
Or per mile of railway ...	181	69 0 0	184 0	15 0 0	1 0 0	85 0 0	.....	.....	.....
For previous 16 weeks of half-year ...	277,310	96,361 0 0	4,10,180 0	30,858 0 0	2,386 0 0	*1,38,805 0 0	38,618	11,476	50,094
Total for 17 weeks ...	292,870	1,02,271 0 0	4,32,050 0	41,178 0 0	2,686 0 0	1,46,135 0 0	41,098	12,100	53,198
COMPARISON.									
Total for corresponding period of previous year ...	14,278	4,451 0 0	8,198 0	753 0 0	269 0 0	5,473 0 0	2,495	1,509	4,004
Per mile of railway corresponding period of previous year ...	166	52 0 0	95 0	9 0 0	3 0 0	64 0 0	.....	.....	.....
Total to corresponding date of previous year ...	268,877	82,471 0 0	1,98,198 0	17,034 0 0	2,773 0 0	1,02,278 0 0	41,590	12,225	53,815

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,473	64	86	7,330	85	86	19,631	57	86	27,070	81	8,349	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd May 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,447	1,208 0 0	6,489 0	449 0 0	17 0 0	1,674 0 0	509	254	763
Or per mile of railway ...	126	44 0 0	238 0	16 0 0	1 0 0	61 0 0	.....	.....	.....
For previous 16 weeks of half-year ...	55,281	19,907 0 0	2,23,604 0	13,478 0 0	1,753 0 0	35,140 0 0	8,435	8,040	16,474
Total for 17 weeks ...	58,678	21,115 0 0	2,30,093 0	13,927 0 0	1,772 0 0	36,814 0 0	8,944	8,303	17,247
COMPARISON.									
Total for corresponding week of previous year ...	2,761	1,014 0 0	7,838 0	592 0 0	8 0 0	1,614 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	101	37 0 0	288 0	22 0 0	.....	59 0 0	.....	.....	.....
Total to corresponding date of previous year ...	59,698	22,622 0 0	2,01,619 0	12,198 0 0	1,432 0 0	36,352 0 0	9,016	8,011	17,027

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,614	59	27½	1,674	61	27½	8,012	59	27½	8,136	60	124	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. & A. P.			
Total traffic for the week ...	40,286	16,478 0 0	2,27,046 0	27,433 0 0	3,065 0 0	40,976 0 0	4,923	8,781	13,704
Or per mile of railway ...	148	60 0 0	832 0	100 0 0	4 0 0	164 0 0*	.....	.....	.....
For previous 10 weeks of half-year ...	793,274	3,26,232 0 0	43,62,176 0	4,08,133 0 0	52,126 0 0	8,76,491 0 0	86,201	161,256	247,557
Total for 17 weeks ...	833,660	3,42,710 0 0	45,89,222 0	5,25,566 0 0	55,191 0 0	9,23,467 0 0	91,224	170,077	261,301
COMPARISON.									
Total for corresponding week of previous year ...	44,378	16,418 0 0	2,11,859 0	17,753 0 0	3,987 0 0	38,158 0 0	4,735	6,264	10,999
Per mile of railway corresponding week of previous year ...	163	60 0 0	776 0	65 0 0	1 0 0	136 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	768,984	2,91,527 0 0	25,91,942 0	2,44,581 0 0	60,227 0 0	5,96,335 0 0	95,691	98,735	194,426

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	38,158	140	273	46,976	172	273	1,83,956	135	273	2,30,648	169	46,692	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 12th April 1890	...	...	8,640
Corresponding period of 1889	...	...	11,742
Decrease	...	...	3,102
Receipts per mile for week ending 12th April 1890	...	...	Rs. A. P. 169 6 7
Corresponding period of 1889	...	...	230 4 0
Decrease	...	...	60 13 5
Receipts from 1st January to 12th April 1890	...	...	1,28,430
Corresponding period of 1889	...	...	1,30,020
Decrease	...	...	1,590

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 19th April 1890	...	...	8,950
Corresponding period of 1889	...	...	10,927
Decrease	...	...	1,977
Receipts per mile for week ending 19th April 1890	...	...	Rs. A. P. 175 7 10
Corresponding period of 1889	...	...	214 4 4
Decrease	...	...	38 12 6
Receipts from 1st January to 19th April 1890	...	...	1,37,380
Corresponding period of 1889	...	...	1,40,947
Decrease	...	...	3,567



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 21, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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TRANSFER RULES FOR COLLEGES AND HIGH SCHOOLS.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 20th May, 1890.

RESOLUTION.

READ again the following papers:—

Resolution recorded by the Government of India in the Home Department, No. ⁶/₃₇₁₋₃₈₃, dated the 17th August 1889.

Letter to the Director of Public Instruction, No. 76T—G, dated the 7th October 1889.

Transfer rules for colleges and schools appended to the Resolution recorded by this Government, dated the 13th September 1887.

Read also—

Letter from the Director of Public Instruction, No. 1995, dated 16th April 1890.

In the Resolution of the Home Department cited in the preamble, the Government of India suggested that inter-school rules, defining the conditions under which pupils should be allowed to pass from one school to another, should be extended to all schools aided by public funds, as a condition of the continuance of such aid; and that the Senates of the Universities should be invited to use their influence to procure the adoption of this system in schools and colleges which do not receive aid from Government. The essential points which it is necessary to secure by the inter-school rules were further stated to be, that without the consent of the Educational authorities a boy shall not be taken into a school who has been dismissed from another school for misconduct; that failing to pay his school fees in his former school shall debar a boy from admission to another school, except under similar consent of the Educational

authorities; and that, if received into another school, a boy shall not be placed in a higher class than the class he was in before leaving the other school, except at the beginning of a new term.

2. In accordance with the above views, the Director of Public Instruction has submitted revised inter-school rules, as appended to this Resolution, and has suggested that Circle Inspectors should be authorised to issue simplified rules based upon them to govern the transfer of pupils in middle and primary schools. The Lieutenant-Governor approves the rules and the suggestion of the Director of Public Instruction.

3. The Syndicate of the Calcutta University have expressed their desire to co-operate fully with the Education Department in the maintenance of discipline, and are prepared to give their careful attention to any case of infringement of the rules that may be reported to them.

ORDER.—Ordered, that a copy of the Resolution and of the Rules be forwarded to the Director of Public Instruction for information and guidance.

Ordered also, that a copy of the Resolution, as well as of the Rules, be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

TRANSFER RULES FOR COLLEGES.

I.—A student, before he is admitted to a college, shall be required to produce a transfer certificate from the Principal of the college in which he has last been reading. But if he applies at the beginning of a session, without having joined any other college, for admission to the first-year or to the third-year class, the certificate of having passed the last Entrance or First Arts Examination respectively shall be accepted in lieu of such certificate. A student who has failed at the First Arts or the B. A. Examination, and has not meanwhile joined any other college, may be admitted in the following session to the second or fourth-year class of the college, on production of the Registrar's receipt. The fact of his admission, with the date, should be written across the face of the receipt.

II.—The certificate shall run as follows:—

Certified that _____ son of _____
an inhabitant of _____ has been a student in the _____ class of the
College from _____ to _____ 18 _____. His character and conduct have been
_____ . All sums due by him to the College have been paid, including college fees
up to _____ . His scholarship of Rs. _____ per mensem has been drawn and paid to him
in this college up to _____ . His attendance in each course of lectures is
given below:—

Subject.

Number of lectures delivered.

Number of lectures attended.

Dated

Principal.

III.—Application for a transfer certificate must be made, either personally or by letter (registered, if necessary) to the Principal of the college; and when so made the certificate is to be given without any avoidable delay. The only grounds on which it can be refused are (1) gross misconduct; (2) failure to pay the sums due to the college, including tuition fees and fines and transfer fee (if any). If a certificate is refused, the cause of refusal shall be notified in writing to the applicant.

IV.—Any instance of "gross misconduct" on the part of a student, whether followed by expulsion or not, must be at once notified to the Department, failing which no future action can be taken on it. A student expelled for misconduct cannot be admitted to another college without the express sanction of the Director of Public Instruction.

V.—For the purposes of the transfer certificate, the date on which a student presents his application for transfer, or the date of receipt of the letter (Rule III), shall be regarded as the date upon which his connection with a college ceased, and no fee shall be charged to him for any subsequent month. But if the student does not pay the sums due from him to the college within three days of his receiving intimation of their amount, he shall be treated as "absent without notice" until such sums are paid, subject (as regards any further sums so accruing) to the limit stated in Rule VI.

VI.—A student quitting a college without notice shall be liable to pay fees, together with fines for absence, for one month subsequent to that in which he last attended the college, after which his connection with the college shall be considered to have ceased.

VII.—A student quitting a college, except at the close of a session, shall be liable to pay a transfer fee before obtaining his certificate. The transfer fee shall not (except under special orders of the Department in the case of free colleges) exceed the ordinary monthly fee of the class.

VIII.—For students sent up to the First Examination in Arts or to the B.A. Examination, the session ends in May; for other students it ends in February, the month preceding that in which the new second and fourth-year classes are formed.

IX.—If a student withdraws from a college after the Durga Puja Vacation, he shall be liable to pay fees in that college up to the end of the session.

X.—A student shall not be sent up to the University examination until he has paid all sums due to the institution in which he has been reading, including fees up to the end of the session in May.

XI.—When a student has held a scholarship, free studentship, or half-pay studentship, under express stipulation in writing, signed by himself, that the whole or a portion of the sum drawn by or remitted to him shall be refunded to the college in case of withdrawal from it within a certain period, the transfer certificate may be withheld until the sums so due have been repaid, provided that the amount so claimed shall not exceed the amount actually drawn or remitted.

XII.—The transfer of Government scholarship-holders shall be subject to the previous sanction of the Director of Public Instruction, which will be withheld unless satisfactory reasons are assigned for the transfer.

XIII.—A student who has failed at the test examination (if any is held) of his college shall not be sent up to the University examination as a student of any other college.

XIV.—All questions arising between one Principal and another respecting the enforcement of these rules shall be referred as soon as possible to the Director of Public Instruction.

XV.—If a student be found producing a false document or making a false statement as to his attendance at any college, he shall be liable to expulsion and shall be reported to the Department.

XVI.—Wilful transgression or colourable evasion of any of the foregoing rules will render a college liable to forfeit the right of sending up candidates for senior scholarships and to be reported to the University for further penalties.

TRANSFER RULES FOR HIGH SCHOOLS.

I.—A student, before he is admitted to a high school, shall be required to produce a transfer certificate from the head-master of the school (of whatever class) in which he has last been reading. He should be accompanied by, or should present a letter of application from, his father or *bond fide* guardian, whose name should be registered in the admission book of the school. His father's name and place of residence should invariably be registered, in order to secure identification. If he has failed at the previous Entrance examination, and applies for admission in the following session without having joined any other school, the Registrar's receipt shall be accepted in lieu of a certificate. The fact of his admission, with the date, should be written across the face of the Registrar's receipt.

II.—The certificate shall run as follows:—

"Certified that _____, son of _____, an inhabitant of _____, was in the _____ class of the school up to _____, and left with a _____ character. All sums due by him to the school have been paid. He has (or has not) passed the annual examination for promotion to the _____ class. His age on leaving is believed to have been _____ years months."

Dated _____

Head Master.

III.—Application for the transfer of a student must be made by his parent or *bond fide* guardian, either personally or by letter (registered, if necessary), to the head-master of the school which he is leaving; and when so made the certificate is to be given without any avoidable delay. The only grounds on which it can be refused are (1) gross misconduct, (2) failure to pay the sums due to the school, including schooling fees and fines and transfer fee (if any). If a certificate is refused, the cause of refusal shall be notified in writing to the applicant. If the certificate is not received within three days of the payment by the student of the amount (if any) due to the school, the matter may be referred to the Inspector of Schools, or to the Director of Public Instruction, as laid down in Rule XII.

IV.—Any instance of "gross misconduct" on the part of a student, whether followed or not by expulsion, must be at once reported to the Department, failing which no future action can be taken on it. A student expelled for misconduct cannot be admitted to another school without the express sanction of the Department.

V.—For the purposes of the transfer certificate, the date on which a student presents his application for transfer, or the date of the receipt of the letter (Rule III), shall be regarded as the date upon which his connection with the school ceased; and no fee shall be charged to him for any subsequent month. But if the student does not pay the sums due from him to the school within three days of his receiving intimation of their amount, he shall be treated as "absent without notice" until such sums are paid, subject (as regards any further sums so accruing) to the limit stated in Rule VI.

VI.—A student quitting a school without notice shall be liable to pay fees, together with fines for absence, for one month subsequent to that in which he last attended the school, after which his connection with the school shall be considered to have ceased.

VII.—A student quitting a school, except at the close of a session, shall be liable to pay a transfer fee before obtaining his transfer certificate. The transfer fee shall not (except under special orders of the Department in the case of free schools) exceed the ordinary monthly fee of the class.

VIII.—The session of each school ends in the month in which the annual examinations for promotion are held, and preceding that in which the new classes are formed. For students sent up to the Entrance examination, the session ends in May.

IX.—If a student withdraws from a school after the Durga Puja vacation, he shall be liable to pay fees in that school up to the end of the session.

X.—A student shall not be sent up to the Entrance examination until he has paid all sums due to the institution in which he has been reading, including fees up to the end of the session in May.

XI.—When a student of the first or second class has held a scholarship, free studentship, or half-pay studentship, under express stipulation in writing, signed by himself and his guardian, that the whole or a portion of the sum drawn by or remitted to him shall be refunded to the school in case of withdrawal from it within a certain period, the transfer certificate may be withheld until the sums so due have been repaid, provided that the amount so claimed shall not exceed the amount actually drawn or remitted.

XII.—The transfer of Government scholarship-holders and free students shall be subject to the previous sanction of the Inspector or Joint Inspector of Schools, or (in the case of schools attached to first-grade colleges) of the Director of Public Instruction, which will be withheld unless satisfactory reasons are assigned for the transfer.

XIII.—A student shall not, on admission to a school, be placed in a class higher than that in which he was in the school he has quitted, or if he has passed the annual examination for promotion, than the next higher class. This rule shall apply to admissions to the three highest classes. Thus, a student failing at the annual examination of the fourth class of one school cannot be admitted to the third class of another.

XIV.—If a student has been absent from a school for a full year, and if the Inspector of Schools or the Director of Public Instruction (*vide* Rule XII) is satisfied that his absence was not due to misconduct or rustication, the preceding rule may, with the sanction of the Inspector or the Director, as the case may be, be relaxed in his favour.

XV.—The fact of a student applying for admission without having undergone the annual examination of his old school must be regarded, unless the reverse is certified to by his former head-master, as sufficient evidence of his not having been fit for promotion. He should not therefore be admitted into a class higher than that in which he was in the other school.

XVI.—After admission under the foregoing rules, no student shall be promoted to a higher class before the next annual examination of the school. The application of this and the preceding rule shall be confined to the three highest classes. (See illustration, Rule XIII.)

Note (1).—It would be a violation of this rule to send up a student to the Entrance examination before he has been promoted in due course to the first class of the school.

Note (2).—The annual examinations are held at various times from December to February. In the case of a student admitted under Rule XV, the "next annual examination" means the annual examination held in the following session.

Note (3).—The annual examination will not be recognised in any school which has not been *bond fide* in existence from the beginning of the session.

XVII.—The *provisional* admission of a student to a school will not be recognised. No student will be regarded as belonging to a school unless and until his name is entered both in the admission book and on the register of a certain class.

XVIII.—A student who has failed at the test examination of his school shall not be sent up to the Entrance examination as a student of any other school, nor shall he be sent up to that examination as a private student.

XIX.—All questions arising between one head-master and another respecting the enforcement of these rules shall be referred, as soon as possible, to the Inspector or the Director (*vide* Rule XII).

XX.—If a student be found producing a false document or making a false statement as to his attendance at any school, he shall be liable to expulsion, and shall be reported to the Department.

XXI.—Wilful transgression or colourable evasion of any of the foregoing rules will render a school liable to forfeit the right of sending up candidates for junior scholarships, and to be reported to the University for further penalties.

LIBERALITY OF BABU JANOKI BALLAV SEN, ZEMINDAR OF
DIMLA, IN THE DISTRICT OF RUNGPORE.

No. M-^{1G}₄2, dated Darjeeling, the 15th May 1890.

From—H. J. S. COTTON, Esq., Secretary to the Govt. of Bengal, Municipal Dept.,
To—The Commissioner of the Rajshahye Division.

I AM directed to acknowledge the receipt of your letter No. 66J, dated 17th April 1890, in which you bring to the notice of Government the liberality of Babu Janoki Ballav Sen, Zemindar of Dimla, in the district of Rungpore, in subscribing Rs. 20,000 in aid of the drainage scheme now in progress at Rungpore, and Rs. 20,000 towards the native sanitarium at Darjeeling. The latter amount will, in accordance with the wish of the donor, be devoted to the construction of a building for the exclusive accommodation of Hindu patients, to be called the "Janoki Ballav House."

2. In reply, I am directed to request that you will be so good as to convey to Babu Janoki Ballav Sen the thanks of the Lieutenant-Governor for his munificent gifts, and to say that this letter will be published in the *Calcutta Gazette*.

REPORT ON THE STATE OF THE SALT MARKET FOR THE
FOURTH QUARTER OF 1889-90.

No. 353B, dated Calcutta, the 12th May 1890.

From—K. G. GUPTA, Esq., Offg. Secretary to the Board of Revenue, L.P.,
To—The Secretary to the Government of Bengal, Financial Department.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the fourth quarter of 1889-90, comprising the months of January, February and March 1890.

SALT.

THE HON'BLE SIR HENRY HARRISON, Kt.

2. The quantity of salt of every description cleared during the quarter under report amounted to 24,01,999 maunds 18 seers 6 chittacks against 24,38,503 maunds 14 seers 3 chittacks in the previous quarter, and 21,53,700 maunds 31 seers 13 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 56,82,037-13 against Rs. 57,16,963-2 in the previous quarter, and Rs. 51,04,008-12 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I:—

TABLE I.

			Cuttack.			Pooree.			Balasore.		
			Mds.	s.	t.	Mds.	s.	t.	Mds.	s.	t.
Balance at close of the last quarter			1,70,864	0	0	1,820	0	0
Manufactured or added during the quarter		
Total			1,70,864	0	0	1,820	0	0
Sales during the quarter			36,886	0	0	200	0	0
Wastage			1,737	0	0	.....	
Total			38,623	0	0	200	0	0
Balance at close of the quarter			1,32,241	0	0	1,620	0	0

4. The total sale of excise salt during the quarter under review amounted to 37,086 maunds against 15,629 maunds in the previous quarter, and 29,389 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years:—

TABLE II.

	1887-88.		1888-89.		1889-90.	
	Fourth quarter.		Fourth quarter.		Fourth quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	11,49,787	15,36,549	15,65,968	15,59,499	18,09,964	15,51,929
Foreign kurkutch	3,40,668	3,73,719	2,27,523	3,47,005	6,90,480	5,94,536
Indian ditto	2,23,695	1,58,754	2,10,793	97,430	1,02,593	1,12,503
Total	17,18,950	20,69,022	20,04,274	19,94,934	26,00,046	22,58,968

6. The following are the details of the Indian kurkutch salt shown in the above table:—

TABLE III.

	1887-88.		1888-89.		1889-90.	
	Fourth quarter.		Fourth quarter.		Fourth quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	2,23,695	1,58,754	1,79,419	60,056	57,451	69,489
Vizagapatam ... ..	.....	.....	2,400	.....	.....	.....
Coconada ... ..	.....	.....	28,574	28,574	39,046	36,918
Madras ... ..	.....	.....	.....	.....	6,000	6,000
Tuticorin ... ..	.....	.....	.....	.....	56	56
Colingapatam ... ..	.....	.....	.....	.....	40	40
Total	2,23,695	1,58,754	2,10,793	97,430	1,02,593	1,12,503

7. Table IV shews the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters:—

TABLE IV.

WHERE STORED.		Fourth quarter of 1888-89.	First quarter of 1889-90.	Second quarter of 1889-90.	Third quarter of 1889-90.	Fourth quarter of 1889-90.
		Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government golahs ... ..	...	16,64,397	22,40,063	23,55,265	17,41,840	22,11,945
Chittagong ditto do. ... ..	...	2,32,656	1,53,597	1,42,580	67,537	2,21,633
Total ... ..	...	18,97,053	23,93,660	24,98,145	18,09,457	24,33,578

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below:—

TABLE V.

PERIOD.	Via Balikhali.	Via Sankrail.	Via Gewakhally.	Via Kidderpore.	Via Ballinghatta.	Via Ruthkollah Ghat.	By the East Indian Railway.	By the East- ern Bengal and South- Eastern Rail- ways or via Chitpore.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Fourth quarter of 1887-88	2,15,508	1,59,072	1,68,228	50,900	4,50,998	7,405	9,16,237	2,04,696
Ditto of 1888-89	2,02,385	1,51,317	94,763	76,690	4,62,963	2,922	8,50,840	1,79,969
Ditto of 1889-90	1,87,409	1,42,699	95,192	79,200	5,52,241	2,947	8,94,355	2,55,550

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 2,733 maunds 30 seers, as noted in the margin, against 2,126 maunds 10 seers in the previous quarter, and 3,948 maunds 30 seers in the corresponding quarter of the previous year.
10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow:—

						Tons.
January	...	...	...	...	...	33,530
February	...	...	...	...	...	30,890
March	...	...	...	...	...	15,500
Total	...	...	...	...	...	79,920

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

DESCRIPTION OF SALT.	Prices on the 15th January		Prices on the 31st January		Prices on the 14th February		Prices on the 28th February		Prices on the 15th March		Prices on the 31st March	
	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool punnah	95	102	95	100	95	96	94	96	92	89	91	91
French kurkutch	...	...	...	...	61	...	61	...	61	...	61	...
Jedda ditto	60	40	60	46	62	44	62	45	62	44	62	44
Bombay ditto	92	66	98	64	97	69	97	75	92	77	92	80
Italian ditto	...	...	...	...	61	...	61	...	61	...	61	...
Muscat ditto	69	50	62	47	60	47	61	49	61	49	61	51
Rock	75	145	75	145	75	150	75	150	75	150	75	150

12. The following table shows the quantity of sea-imported salt admitted into bond, and cleared from bond and shipboard, at Chittagong and Narain-gunge during the quarter under review and the corresponding quarter of 1888-89:—

TABLE VII.

PORT.	DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
		Fourth quarter of 1888-89.	Fourth quarter of 1889-90.	Fourth quarter of 1888-89.	Fourth quarter of 1889-90.
		Mds. s. c.	Mds. s. c.	Mds. s. c.	Mds. s. c.
Chittagong	Liverpool	1,46,470 0 0	1,06,412 0 0	94,931 25 0	71,171 13 8
	Bombay	...	...	0 16 8	0 7 0
	Muscat	...	...	1 36 0	...
	Bremen	...	49,320 0 0	...	2,780 0 0
	Rangoon	...	...	...	0 5 0
Naraingunge	Maldiva	...	...	...	0 10 0
	Liverpool	...	...	20,898 0 0	30,492 0 0
Total		1,46,470 0 0	2,15,738 0 0	1,24,831 37 8	1,04,445 33 8

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree, and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 17th May, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIVS.	1 Burdwan May 17, '90	0.21	Weather—hot and occasionally cloudy. Rain much wanted. Agricultural operations impeded for want of rain. Prospects of <i>til</i> and sugarcane not good. Prices of common rice:— <div style="float: right; text-align: right;"> Srs. Burdwan 15 Culna 15 Cutwa 14½ Ranigunge 16½ } per rupee. </div>
	2 Bankoora „ 17, '90	0.25	Weather—much cooled down. A very light shower on the 15th. Sugarcane and other standing crops are suffering in places for want of sufficient moisture. Rain wanted for ploughing. Common rice selling at 20 seers per rupee at Sudder and 18 seers at Bissenpore.
	3 Birbhum „ 17, '90	0.07	Rainfall so small as to be hardly measurable; but the sky is much clouded, and the weather remarkably cool. Sugarcane planting nearly complete.
	Rampore Haut „ ..	0.20	Price of rice 16 to 20 seers per rupee.
	4 Midnapore „ 17, '90	1.56	Frequent showers. Rain very beneficial. It will allow of the lands being prepared for sowing. Indigo doing well. Prices of common rice— <div style="float: right; text-align: right;"> Srs. Sudder 18 Contai 20 Tamluk 17 Ghatal 16 } per rupee. </div>
PRESDENCY DIVS.	Contai „ ..	0.52	
	5 Hooghly „ 17, '90	0.33	Weather—cool for the time of year. Such rain as has fallen has improved prospects. Prices of common rice— <div style="float: right; text-align: right;"> Srs. Sudder 14 Serampore 16 Jehanabad 16 } per rupee. </div>
	Jehanabad „ ..	1.25	
	Howrah „ 17, '90	1.02	Weather—cooler, somewhat cloudy. The rain has done good. Grounds being prepared for next paddy crop. Price of common rice 12 seers per rupee.
	<i>Central Districts.</i>		
PRESDENCY DIVS.	6 24-Parghs. May 17, '90	1.92	Weather—hot and cloudy. Sowing of early rice and jute continues. The late rain has done much good, but more is wanted. Sugarcane doing well. Prices stationary.
	7 Nuddea „ 17, '90	1.61	Rain general and heat much moderated. Sowings going on. Rain has done much good.
	Kushtia „ ..	1.51	
	Meherpore „ ..	0.21	
	Chuadanga „ ..	1.12	
PRESDENCY DIVS.	8 Khoolna „ 17, '90	2.24	Weather—stormy and hot. Land is being ploughed for <i>aus</i> . Reaping of <i>boro</i> completed with good outturn.
	Satkhira „ ..	0.52	
	Bagirhat „ ..	0.44	
	9 Jessore „ 17, '90	3.20	Weather—cool and cloudy. The rainfall of the week has been good for the sowing of indigo, jute, and <i>aus</i> and <i>amun</i> paddy. Jute and indigo have been sown to the extent of 15 annas each.
	Jhenidah „ ..	2.12	
RAJSHAHY DIVS.	Magura „ ..	1.56	
	Narail „ ..	0.14	
	Bongong „ ..	0.04	
	10 Moorsshedabad „ 17, '90	1.25	Weather—cool and cloudy. Good showers over parts of the district, but more rain needed. Sowing of <i>bhadoi</i> progressing.
	Lalbagh „ ..	0.37	
RAJSHAHY DIVS.	Jungipore „ ..	0.41	
	11 Dinagepur „ 17, '90	3.89	Weather—variable. Storms and much rain during the week. Rain sufficient, and prospects good. Sugarcane planting not yet completed. The usual area is likely to be planted with sugarcane.
	Thakurgaon „ ..	1.95	
	12 Rajshahye „ 17, '90	0.63	Weather—cool and cloudy. More rain expected. Sowing of jute and of early and winter paddy continues. Rain has done good to the already sown crops. Prices of food-grains stationary.
	Nattore „ ..	3.23	
RAJSHAHY DIVS.	13 Rungpur „ 17, '90	3.06	Weather—unsettled; cool with frequent showers. The young <i>aus</i> rice and jute are thriving, but some damage has been done by the excessive rainfall. The area under jute shows a large advance over that of last year.
	Kurigram „ ..	2.15	
	Nilphamari „ ..	2.25	
	Gaibanda „ ..	2.60	
	14 Bogra „ 17, '90	1.71	Weather—changeable. Jute and <i>aus</i> rice are up in most places and doing well. They are still being sown in a few places. The land is being ploughed for <i>amun</i> rice. Common rice selling at 18 seers a rupee.
RAJSHAHY DIVS.	Sherpur „ ..	1.81	
	Nowkhilla „ ..	1.74	
	15 Pubna „ 17, '90	1.59	Weather—showery. <i>Aus</i> , <i>amun</i> , and jute are still being sown in the Sudder subdivision. Recent rain has done much good. Prospects of crops satisfactory, especially in the Serajgunge subdivision. Prices have somewhat fallen.
	16 Darjeeling „ 17, '90	2.68	Weather—cloudy and cold. Sowing of <i>bhadoi</i> , jute, and sugarcane almost finished. Lands are being prepared for the transplanting of winter rice. Prospects generally good.
	17 Julpigoree „ 17, '90	3.97	Weather—cloudy and fairly cool for this time of year. Sowing of <i>bhadoi</i> and jute nearly completed. Prospects favourable. Common rice selling at 17 seers per rupee.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
Dacca Div.	18 Dacca May 17, '90	5.01	Weather—cool; rainy and cloudy with high winds. State and prospects of crops good. Harvesting of <i>boro</i> paddy completed. Young rice and jute plants thriving. Sugarcane doing well. Chillies are being gathered. Sowing of <i>aman</i> nearly finished. Recent rain has done much good to the standing crops. Fodder is available. Price of common rice 13 to 16 seers per rupee.
	19 Farreedpur „ 17, '90	2.97	Weather—seasonable. Recent rain has much benefited the standing crops. The sowing of <i>aman</i> and <i>aus</i> paddy is all but completed. <i>Jali dhan</i> is being harvested with an average outturn of 13 annas. Price of common rice ranges from 13 to 16 seers per rupee.
	20 Backergunge „ 17, '90	0.55	Weather—seasonable. Prospects of crops good; more rain wanted. Common rice selling at 12 to 15 seers per rupee.
	21 Mymensingh „ 17, '90	4.08	Weather—cool and rainy. State and prospects of crops good. The <i>boro</i> has been harvested, and is more than an average crop. Common rice sells at 13½ seers per rupee.
Chittagong Div.	22 Chittagong „ 17, '90	1.32	Weather—seasonable. Chilly crop excellent. Sowing of <i>pania aus</i> in progress; in some places it has begun to germinate, but the <i>leda</i> worm (probably the mole cricket) is doing a little damage. Common rice selling at 17 seers per rupee.
	23 Noakholly „ 17, '90	4.44	Weather—variable; temperature very fluctuating. 12 annas on average of <i>aus</i> crop reported to have been sown. In Begungunge, Feni, Farashgunge, and Sheshbag damage to a certain extent caused to young plants by insects.
	24 Tipperah „ 17, '90	4.77	Weather—cloudy, wet and cool. Rice, jute, and <i>til</i> doing well. Prospects much improved by the late rain. Prices stationary.
	25 Chittagong Hill Tracts. „ 15, '90	2.93	Weather—very hot and cloudy. Heavy showers on the 10th, 14th and 15th. <i>Jum</i> burning now over. Sowing in <i>jums</i> commenced in some places. Owing to rain many <i>jums</i> not burnt. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice is being sold at 13 seers 6½ chittacks per rupee.
BEHAR.			
Patna Div.	Hill Tipperah ...	...	Report not received.
	26 Patna Barh „ 17, '90	2.18	Weather—hot; often cloudy and occasionally rainy. East wind blowing. <i>Cheena</i> and sugarcane much benefited by the rain of the week. Opium weighing finished. Prices rising.
	27 Gya „ 17, '90	0.90	Weather—hot. Prospects of sugarcane favourable. Prices of food-grains rising.
	28 Shahabad „ 17, '90	Nil	Weather—cool. East winds. Slight rain at Arrah on the 14th. <i>Cheena</i> being reaped. Prospects good.
Bhagalpur Div.	Buxar ...	0.36	
	Sasseram ...	0.08	
	29 Durbhunga „ 17, '90	0.97	Weather—cloudy during the latter part of the week. The rainfall of the week has done immense good to paddy, <i>mung</i> , and indigo, and has facilitated cultivation of <i>bhadai</i> lands. Prices rising.
	Madhubani ...	1.58	
	Somastipur ...	0.70	
	30 Mozamerpur „ 17, '90	0.55	Weather—hot at the commencement of the week. Since the rain of Wednesday (14th) the weather has become cool with easterly winds. Rain very beneficial to all crops on the ground, but it has varied much in quantity from place to place, and in most localities more is wanted.
	Hajipur ...	2.36	
	Sitamarhi ...	0.70	
	31 Saran „ 17, '90	0.92	Weather—extraordinarily cool. Strong east wind and a good deal of rain everywhere. Indigo, rice seedlings, and <i>cheena</i> benefited by rain. Ploughing commenced for <i>bhadai</i> crops.
	32 Champaran „ 17, '90	60	Weather—cool. Rain during the week has been beneficial to the standing crops. Sowing of paddy is being pushed on. Preparation of lands for sowing of <i>bhadai</i> crops continues. Indigo is being weeded.
	Bettiah ...	0.67	
	33 Monghyr „ 17, '90	1.60	Weather—warm till 13th, when a cyclonic storm broke from north-east, causing fall in temperature. The rain will do much good, allowing cultivation for <i>bhadai</i> crops to be begun, and doing good to indigo.
	Begusarai ...	1.58	
	34 Bhagulpur „ 17, '90	2.14	Weather—cool with strong easterly winds. Rain has been general, and has done much good to crops on the ground, and has helped on preparation for rice crop.
	Banka ...	1.20	
	Madhepoora ...	0.50	
	Soopool ...	1.12	
	35 Purnea „ 17, '90	2.44	Weather—cool after the rain, with easterly winds. Rain has done good in all parts of the district. Jute and indigo crop doing well except on high lands. Rice on low lands being weeded. <i>Bhadai</i> crops being sown.
	Arrarah ...	1.98	
	36 Malda „ 17, '90	2.87	Weather—hot in the beginning of the week, but cool since Tuesday (13th). Heavy showers attended with storms on two days all over the district. This has reduced the temperature considerably, and the rain has been plentiful and general. Harvesting of <i>boro</i> paddy continues. Sowings of <i>bhadai</i> and winter rice going on. About 8 annas of the <i>bhadai</i> have been sown. Rain has done much good to the standing crops. Common rice selling at an average of 14½ seers per rupee, but a fall in price is expected.
	Chanchal ...	2.27	
	Shibgunge ...	0.88	
	Gajole ...	2.06	
	37 S. J. P. Pergas „ 17, '90	0.07	Weather—hot at first and then very cool since the 13th. <i>Boro</i> paddy is still being reaped in Rajmehal. The heavy rainfall at Rajmehal, Pakour, and Godda has greatly assisted agricultural operations, but rain is much wanted at Deoghur.
	Godda ...	2.25	
	Pakour ...	3.33	
	Rajmehal ...	2.25	
	Jamtara ...	0.21	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack	...	Report not received.
	39 Pooree May 16, '90	0.59	Weather—seasonable. Sowing of <i>sarad</i> and <i>beali</i> crops has commenced. Miscellaneous crops doing well. Price of common rice stationary.
	40 Balasore „ 17, '90	0.89	Weather—cooler. Rain has helped cultivation, but more is wanted. Number of coolies on relief-works 189.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVN.	41 Hazaribagh May 17, '90	0.44	Weather—rather unsettled; cloudy and much cooler. Sugarcane and mango doing well. Lands being ploughed in places. Rice selling at from 16 to 20 seers per rupee.
	42 Lohardugga „ 17, '90	1.36	Weather—seasonable and cloudy. <i>Mohua</i> gathering finished; average outturn at Palamow reported to be 6 annas. Mango and sugarcane reported on well. Ploughing going on. <i>Gora</i> rice being sown here and there.
	43 Singbhoom „ 17, '90	2.52	Heavy rain during the week. Weather still threatening. Ploughing operations commenced. Sugarcane thriving. Mangoes ripening. Common rice selling at from 16 to 24 seers per rupee.
	44 Manbhoom „ 17, '90	1.13	Weather—windy and cool. No crop on the ground excepting sugarcane. Ploughing commenced. The rain has done some good and has cooled the atmosphere. Rice selling at from 18 to 22 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 20th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of February, 1890.

IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS.							FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	RICE AND PADDY.			Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny-bags, †	Linseed.	Mustard seed.				Refined.	Unrefined.	Manufactured.	Manufactured.
	Rice.	Paddy.	Total (in rice).															
BENGAL.																		
Burdwan	2,25,051	1,671	2,26,095	129	573	14	2,27,111	12,250	115	1,195	80	182	18	164	1
Medinipur	1,92,095	1,92,095	412	49	1,92,556	4,690	14	46
Malda	3,12,799	18,524	3,31,323	300	3,31,677	602	5,382	200	529	1,127	8
Chhota Nagpur	37,822	15,288	53,110	614	3,673	4,287	69,313	285,167	2,628	395	30	17	284	14,408	78
Pargannas	3,84,857	25,923	4,10,780	18,090	4,18,499	53,827	329,655	8,344	2,647	8,993	29,679	2,190
Chhota Nagpur	9,330	47	9,340	2,433	61,583	899	64,264	11,406	2,023	33,836	882	225	150	8,340	10
Chhota Nagpur	14,540	14,775	29,315	59	29,324	1,502
Chhota Nagpur	27,999	5,250	33,280	3,407	34,687	14,618	105	1,148	283	150	8,340	730
Chhota Nagpur	26,039	26,039	469	6,134	95	31,677	2,675	155,855	448	891
Chhota Nagpur	1,701	1,701	304	2,005	4,911
Chhota Nagpur	879	879	787	1,666	14,556	109	891
Chhota Nagpur	41	41	41	51,712	43,400	2,514
Chhota Nagpur	5,018	5,018	700	5,718	4,989	1,645
Chhota Nagpur	1,134	1,134	439	1,573	2,64,859	465,810	3,911	241
Chhota Nagpur	1,760	33,425	888
Chhota Nagpur	25,435	113,480	445	225
Chhota Nagpur	904	904	1,152	2,156	2,56,541	315	346	10	4,063
Chhota Nagpur	7,363	425	7,788	1,252	8,881	88,984	560	208	6,802
Chhota Nagpur	8,44,805	600	8,44,600	8,44,600	6,100	144
Chhota Nagpur	1,093	1,093	1,093	1,82,366	45	217
Chhota Nagpur	8,025	600	8,400	8,400	1,523
Chhota Nagpur	28,119	28,119	28,119	110	3,455
Chhota Nagpur	13,303	13,303	13,303	872	509
Total of Bengal	22,05,399	81,103	22,56,088	4,727	88,393	1,908	23,50,216	10,55,653	1,518,410	47,277	17,896	812	14,775	2,282	9,655	74,018	26,531	1,062
BEHAR.																		
Patna	1,335	1,335	832	29,789	642	32,598	523	7,921	13,737	18	2	6,066	265	2,916
Patna	706	2,941	3,647	280	1,210	3,457	8,609	229
Patna	243	243	393	546	53	313	4,028	13,034	13
Patna	894	392	1,286	4,585	4,789	37,225	210	9	308	19
Patna	558	41
Patna	6	6	1	7	70	2,291	13,363	313
Patna	3,315	18,305	261	24,481	1,135	1,408
Patna	2,144	2,144	13,812	5,851	910	22,717	3,045	4,125	11,197	5	138
Patna	787	787	685	1,809	3,281	18,566	3,335	724	4,316	215
Patna	1,204	1,204	1,345	2,816	113	5,478	2,677	500	404	700
Patna	7,374	7,374	10,741	9,859	1,419	29,303	1,983	1,540	1,863	23,476	32	138	287	1
Total of Behar	13,003	13,003	33,436	72,863	4,440	1,23,434	23,166	18,900	25,696	1,16,488	212	61	140	19	28,217	689	3,160
ORISSA.																		
Cuttack	383	383	383	1,226
Cuttack	71,190	9,795	77,312	204	77,516	9,602	877	2	130
Total of Orissa	71,573	9,795	77,695	204	77,899	10,898	877	2	130
CHOTA NAGPUR.																		
Chhota Nagpur	350	41	11,854
Chhota Nagpur
Chhota Nagpur	6,513	6,513	6,513	243	3,608	359	371
Total of Chota Nagpur	6,513	6,513	6,522	595	41	15,462	359	371
Total of all Provinces under the Lieutenant-Governor of Bengal.	22,06,578	90,898	23,53,389	38,163	1,61,402	5,057	25,58,071	10,89,717	1,534,905	72,414	1,50,723	1,383	14,536	2,795	9,674	1,02,245	27,141	4,222
OTHER PROVINCES.																		
North-Western Provinces and Oudh.	11,828	50	11,859	11,859	15,164	132	3,764	36,133	3,125	879
North-Western Provinces and Oudh.	11	11	53,072	51,441	1,934	1,07,058	798	210	11,219	68,489	118	1,41,537	3	173	4,339	15
North-Western Provinces and Oudh.	12	12	6,870	2,363	2,140	11,385	1,925	72	18,479
North-Western Provinces and Oudh.	613	2,773	360	601	21,274
North-Western Provinces and Oudh.	1	1	360
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* One maund of paddy is equivalent to 25 seers of rice.

† Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of February, 1890, was as follows:—

IMPORTED FROM CALCUTTA--																			
Indian ports, viz.--																			
Bombay ...	4,10,394	30	4,10,413	.....	1,784	271	4,12,468	234	330,600	.....	10,460	480	485	.....	159	60	231	10	
Other ports in Bombay	419	.....	419	.....	.....	.....	419	.....	.....	.....	.....	.....	.....	.....	10	.....	1	.....	65
Madras ...	710	6,541	4,173	.....	8,725	.....	12,898	3,543	144,700	4	155	2	.....	.....	175	.....	.....	.....
Other ports in Madras	1,65,819	.....	1,65,819	39	6,520	.....	1,72,378	.....	370,100	.....	.....	.....	.....	1	1	.....	.....	.....
Bombay ...	2,794	.....	2,794	1,817	16,189	2,386	22,186	483	2,346,040	.....	.....	71	116	116	412	632	10,764	269	
Other Indian ports	.....	.....	.....	204	2,412	.....	2,616	54	282,750	.....	.....	2	.....	.....	1,919	2,600	808	161	
Madras ...	.....	.....	.....	163	263	.....	425	.....	126,500	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total of Inter- port trade	5,80,136	5,571	5,83,618	2,223	34,862	2,657	6,23,360	4,314	3,609,899	4	10,645	555	602	192	2,501	3,208	11,803	506	
Foreign ports-- United Kingdom	2,14,497	10	2,14,509	.....	5,521	.....	2,20,030	7,97,324	938,400	96,851	2,715	70,808	16,460	240	813	.....	.....	96	
Other Foreign ports	11,55,738	4,200	11,59,938	509	32,514	16,031	12,07,541	5,11,150	4,099,900	86,754	14,987	2,231	1,11,109	188	.....	705	461	401	
Total of Foreign trade	13,70,235	4,210	13,72,876	599	38,025	16,031	14,27,571	13,08,474	5,038,300	1,33,605	17,702	73,129	1,27,569	428	813	705	461	532	
Total (1890)	19,50,571	9,781	19,60,494	2,822	72,887	18,068	20,50,931	13,12,788	9,247,200	1,33,609	28,347	73,681	1,28,171	620	3,314	3,913	12,264	1,038	
of ports in Feb. (1889)	12,00,738	9,533	12,06,000	16,027	76,978	1,358	13,61,030	12,81,010	13,996,971	2,55,883	61	50,490	1,06,409	1,379	2,953	1,425	15,831	812	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of February, 1890.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Refined.	Un-refined.	Manufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats	16,43,986	73,034	8,528	62,522	473	4,53,157	583,760	20,149	9,784	.....	5,369	150	1,873	28,000	4,086	2,909
" river steamers	32,041	111	.....	3,064	.....	2,79,123	.....	11,429	3,301	37,509	3,783	210	.....	.....	168	41
" rail { East Indian Railway.	4,47,022	9,284	92,337	1,15,902	8,925	21,746	46,330	31,863	1,08,030	841	1,81,331	1,833	194	32,050	702	302
" rail { Eastern Bengal State Railway.	15,338	135	.....	15,193	634	2,85,800	833,730	17,000	11,084	1,253	6,214	958	.....	20,003	17,501	.....
" road	71,590	4,659	.....	20,331	.....	57,117	10,390	3,630	.....	.....	99	.....	7,782	23,412	3,920	809
" sea	94,821	5,778	.....	2,039	.....	8,674	22,230	.....	877	110	19,279	2	34,483	20,379	456	838
Grand Total of Imports in February.	23,10,320	92,971	1,00,863	2,17,711	9,134	11,05,079	1,59,640	84,720	2,22,976	39,706	2,16,100	3,203	44,333	1,26,963	27,433	6,077
	20,10,275	2,18,610	89,593	2,20,532	18,950	9,95,407	1,305,410	95,338	2,08,483	24,364	1,27,334	2,493	21,820	92,102	24,838	3,177

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of February, 1890.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.	Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.				European.	Indian.				
	Rs.	Rs.	Mds.	Mds.	Mds.	No.		Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.													
Bardwan	2,10,861	.....	429	1,351	35,653	151,242	CHOTA NAGPORE.						
Beerbhoom	1,39,594	.....	291	631	13,438	105,255	Hazaribagh	67,725	2,200	.....	73	7,224	8,900
Midnapore	2,02,176	.....	2,859	.....	19,782	49,540	Sinabhoom	10,710	.....	33	806	902	3,680
Hooghly	80,377	6,340	824	139	1,895	20,937	Manbhoom	1,02,864	339	224	1,438	12,329	14,700
24-Pergunnahs	1,47,348	11,452	367	.....	9,615	20,945	Total of Chota Nagpore	1,80,999	2,531	257	2,017	20,457	20,740
Nuddia	3,38,121	.....	1,365	4	21,371	61,756	Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal	80,87,079	29,072	13,089	13,968	5,75,070	1,223,930
Khulna	77,639	.....	190	.....	5,450	70	OTHER PROVINCES.						
Jessore	1,30,719	.....	521	.....	15,089	2,093	Assam	2,66,951	.....	828	461	44,525	12,320
Moorshedabad	72,135	2,000	52	22	6,069	12,566	North-Western Provinces and Oudh	21,40,236	4,180	5,454	477	32,329	311,090
insarepore	88,389	.....	473	6	10,245	10,975	Punjab	2,96,642	10,450	383	38	.....	124,600
K. jshahiye	3,36,861	.....	1,11	.....	13,413	5,325	Central Provinces	29,501	.....	95	6	.....	10,550
lungpore	4,09,972	.....	473	.....	10,864	3,570	Rajputana and Central India	41,076	331	193	.....	.....	23,531
Rourk	1,82,250	.....	67	.....	10,063	18,923	Bihar	145	.....	.....	.....	.....	.....
Pobna	1,78,983	.....	397	.....	2,480	1,653	Nizam's Territory	378	.....	7	.....	.....	.....
Darjeeling	67,725	.....	287	.....	6,071	.....	Bombay	11,711	446	.....	.....	.....	341,773
Julpigoree	2,08,719	.....	219	.....	8,276	1,435	Madras	28,679	.....	245	1,064	.....	314,800
Dacca	7,68,461	.....	2,978	45	35,929	4,293	Pondicherry	.....	.....	.....	.....	.....	136,500
Farradpore	3,38,144	.....	415	.....	20,946	.....	Burmah	2,93,908	171	627	719	.....	2,336,940
Backergunge	2,19,546	.....	1,036	.....	45,000	10,220	Sindh	.....	330	.....	.....	.....	.....
Mymensingh	1,03,987	.....	5	.....	18,325	1,850	Other places	64,281	3,049	.....	20,034	.....	5,015,90
Tipterah	1,15,777	.....	.....	.....	4,521	.....	Grand Total of Exports in Feb. 1890	1,01,10,72	48,122	19,422	37,367	6,52,127	10,685,200
Chittagong	.....	.....	129	4	1,830	28,000	Exports in Feb. 1890	1,01,06,100	39,325	20,744	15,051	5,56,61	14,090,811
Noakholly	200	.....	.....	.....	5,125	.....	The Sea-borne Trade of Calcutta in these Staples during the month of February, 1890, was as follows:—						
Total of Bengal	43,35,703	20,393	14,759	2,265	3,64,702	513,061	IMPORTED INTO CALCUTTA—						
BEHAR.													
Patna	2,65,582	880	193	223	21,234	79,745	From Foreign Ports—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
Gya	1,32,939	530	61	453	10,213	4,755	United Kingdom	1,14,54,427	.....	10,503	.....	5,23,235	.....
Shehabad	3,45,114	.....	23	439	21,61	35,675	Other Foreign ports	63,452	.....	28	.....	1,76,900	22,590
M. rafterpore	1,94,525	.....	.....	6	7,217	2,170	Total of Foreign Trade	1,15,17,479	.....	10,791	.....	6,99,243	22,590
Israhunga	6,03,918	110	14	1,062	22,871	38,080	From Indian Ports—	.....	.....	.....	.....	.....	.....
Shan	5,11,119	.....	.....	.....	10,211	10,835	Bombay	19,340	1,07,375	.....	8,774	12,925	.....
Chunpurni	3,36,161	110	30	21	12,903	10,810	Madras	430	6,550	.....	2,700	.....	.....
Mungyr	1,30,419	110	2	541	9,882	45,640	Other ports in Madras	.....	.....	.....	97	15,206	.....
Bansaspore	3,23,190	.....	45	396	13,590	60,705	Burmah	13,220	23,109	.....	.....	.....	.....
Purnah	1,80,684	.....	153	499	7,017	14,630	Other Indian ports	.....	285	.....	.....	.....	.....
Malda	.....	.....	.....	.....	8,780	4,560	Total of Interport Trade	53,190	1,37,280	.....	8,871	30,191	.....
Sonthal Pergunnahs	2,50,737	4,620	170	664	13,278	70,500	Grand Total of Im-ports in Feb. 1890	1,15,50,969	1,37,380	16,791	8,871	7,29,434	22,590
Total of Behar	32,24,377	6,160	673	4,519	1,06,973	4,5785	ports in Feb. 1890	97,29,917	1,02,009	12,835	7,195	5,99,066	1,500
ORISSA.													
Cuttack	.....	.....	.....	.....	.....	58,750	* As per tariff declaration value.						
Balasore	1,40,000	.....	.....	.....	5,359	23,248							
Total of Orissa	1,40,000	.....	.....	.....	5,359	23,248							

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of February, 1890.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	.....	.....	.....	.....	.....	78,330
" river steamers	1,41,470	6,940	2,491	.....	2,50,883	62,032
" rail { East Indian Railway	5,79,935	.....	2,034	506	29,200	1,188,000
" rail { Eastern Bengal State Railway	6,74,447	20,620	5,770	8,962	2,49,475	97,790
" road	33,73,739	.....	7,463	4	10,277	10,144
" sea	1,87,023	11,303	651	115	4,054	2,917,090
	6,59,143	5,310	1,901	27,580	33,348	.....
Grand Total of Exports in February	1,16,10,725	48,122	19,422	37,367	6,52,127	10,685,200
	1,10,06,100	39,325	20,744	15,051	5,56,612	14,090,811

STATISTICAL DEPARTMENT,
The 17th May, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
11th to 17th May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
May	11th	152.0	9.3	29.646	89.7	97.4	16.9	80.5	81.6	0.970	78.3	71	SSW and S	203	Nil	Partially cloudy
"	12th	152.1	10.1	29.684	89.5	96.3	15.7	80.6	80.8	0.934	77.2	63	SSE, S and SSW	232	"	Partially cloudy, <.
"	13th	150.9	4.0	29.785	85.1	91.8	11.8	80.0	78.5	0.887	75.6	74	SSE, ENE and variable.	202	0.49	Chiefly cloudy, o, s, d, <, p.
"	14th	149.8	5.8	29.811	82.3	90.8	17.1	73.7	75.1	0.777	71.6	71	SSW and variable	146	0.20	Chiefly cloudy, o, d, t, <, p.
"	15th	149.5	9.6	29.748	80.8	90.5	21.2	69.3	74.4	0.773	71.5	74	SSW and variable	104	1.47	Chiefly cloudy, o, s, t, <, p.
"	16th	146.1	4.4	29.716	78.4	87.5	20.3	67.2	73.6	0.766	71.2	79	ESE and variable	78	0.18	Chiefly cloudy, o, d, t, p, lr.
"	17th	152.5	10.2	29.707	83.6	92.2	18.1	74.1	77.1	0.844	74.1	73	ESE, E and variable	89	Nil	Partially cloudy.

The mean pressure of the seven days Inches.
29.728

The average pressure of the corresponding period for 24 years, S.-G.'s Office Inches.
29.682

The total number of hours of bright sunshine Hours.
53.4

The maximum possible number of hours of sunshine Hours.
92.1

The mean temperature of the seven days °
84.2

The average temperature of the corresponding period for 24 years, S.-G.'s Office °
86.2

The extreme variation of temperature °
30.2

The maximum temperature °
97.4

The highest velocity of the wind in one hour Miles.
20

The highest pressure of wind on one square foot lbs.
?

The mean relative humidity %
73

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office %
72

The total fall of rain from 11th to 17th May 1890 Inches.
2.34

The average fall of the corresponding period for 24 years, S.-G.'s Office Inches.
1.07

The total fall from 1st January to 17th May 1890 Inches.
4.47

The average fall of the corresponding period for 24 years, S.-G.'s Office Inches.
7.23

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, < lightning, p passing temporary showers, lr lightning reflection.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 19th May 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	STATION OBSERVATIONS.																
	DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.	
ORISSA.	Pooree	Pooree	29.753	29.765	—	SW	374	91.7	16th May	74.6	16th May	91.0	80.7	85.8	—	84.7	
	Gopalpore	Gopalpore	29.733	29.754	0	SSW	446	90.2	13th "	75.8	15th "	88.9	81.2	85.0	+1.4	84.9	
	False Point	False Point	29.733	29.774	+0.010	Variable	363	91.5	14th "	70.1	15th "	90.9	77.4	84.2	-0.2	85.0	
	Cuttack	Cuttack	29.686	29.767	+0.014	SW	141	107.4	11th "	72.8	15th "	103.8	79.4	91.6	+2.2	82.8	
	Balasore	Balasore	29.712	29.771	+0.016	SW	316.0	104.5	10th "	68.9	15th "	96.5	77.8	87.0	+2.3	84.4	
	South-West Midnapore	Saugor Island	29.753	29.781	+0.014	SSW	480	96.2	14th "	71.0	15th "	93.9	80.1	87.0	+1.9	86.1	
	South 24-Pergunnahs	Midnapore	29.623	29.773	+0.021	S	175.1	109.4	10th, 12th May	60.2	15th "	102.2	77.3	89.8	+3.2	82.7	
	24-Pergunnahs	Calcutta	29.759	29.780	+0.022	Variable	185	102.4	11th "	67.3	16th "	95.4	76.3	85.8	+1.6	82.7	
	Howrah	Howrah	29.663	29.764	+0.066	Variable	175.0	109.2	10th "	71.4	15th "	100.6	78.2	89.4	+3.3	81.7	
	Hooghly	Hooghly	29.444	29.744	+0.021	Variable	168.1	108.6	12th "	70.1	15th "	102.3	78.0	90.1	—	83.2	
	Burdwan	Burdwan	29.663	29.764	+0.066	Variable	175.0	109.2	10th "	71.4	15th "	100.6	78.2	89.4	+3.3	81.7	
	Bankoora	Bankoora	29.444	29.744	+0.021	Variable	168.1	108.6	12th "	70.1	15th "	102.3	78.0	90.1	—	83.2	
	Beerbhoom	Raneegunge	—	—	—	ENE	152.8	111.5	10th "	71.9	15th "	102.0	77.6	89.8	+2.5	82.4	
	West Burdwan	West Burdwan	29.710	29.777	+0.017	ENE	153.0	108.2	10th "	60.2	16th "	96.7	74.2	85.4	+0.3	78.7	
	Moorshedabad	Berhampore	29.731	29.779	+0.028	Variable	316.8	106.3	10th "	70.3	16th "	98.6	76.1	87.3	+2.8	82.5	
	Nudda	Krishnaghor	29.756	29.790	+0.019	SE	102.9	102.8	11th "	70.9	16th "	95.5	76.4	85.9	+1.7	81.9	
	Jessore	Jessore	29.743	29.833	+0.007	SE	155.6	91.7	10th "	71.0	16th "	89.4	78.2	82.3	+1.7	80.9	
	Khoolna	Chittagong	29.743	29.833	+0.007	SE	155.6	91.7	10th "	71.0	16th "	89.4	78.2	82.3	+1.7	80.9	
	Chittagong	Chittagong	29.743	29.833	+0.007	SE	155.6	91.7	10th "	71.0	16th "	89.4	78.2	82.3	+1.7	80.9	
	Chittagong Hill Tracts	Demagiri	29.786	29.798	+0.018	S	151.8	93.8	10th & 13th May	69.9	16th "	90.6	77.6	84.1	+2.1	82.3	
	Backergunge	Barrisal	29.786	29.798	+0.018	S	151.8	93.8	10th & 13th May	69.9	16th "	90.6	77.6	84.1	+2.1	82.3	
	Noakholly	Noakholly	29.786	29.839	+0.063	S	201.3	92.5	10th "	68.4	16th "	87.9	72.9	80.4	-0.2	80.4	
	Furriedpore	Furriedpore	29.770	29.810	+0.023	E	175.0	100.6	10th "	67.4	16th "	90.8	73.6	82.7	-1.1	79.1	
	Dacca	Dacca	29.780	29.808	+0.018	E & S	201.2	95.6	10th & 11th May	65.7	16th "	90.2	72.6	81.4	-1.2	79.3	
	Commillah	Commillah	29.787	29.823	+0.028	SE	165.9	95.3	10th "	68.3	16th "	88.3	72.0	80.2	-1.2	79.2	
	Mymensingh	Mymensingh	29.739	29.818	+0.012	ENE	169.9	94.7	10th "	68.1	13th "	84.8	70.9	77.8	-1.6	76.3	
	Bogra	Bogra	29.731	29.794	+0.036	ENE	133.7	104.3	10th "	68.1	13th & 16th May	89.9	71.9	80.9	-2.2	79.2	
	Pubna	Serajgunge	29.743	29.790	+0.012	E	184.3	98.1	10th "	68.4	16th "	89.9	72.2	81.0	-0.1	78.1	
	Rajshahye	Rampore Beau-leah.	29.719	29.790	+0.031	Variable	159.4	103.3	10th "	69.2	16th "	93.3	73.6	83.4	-0.3	78.9	
	Maldah	Maldah	29.708	29.799	+0.134	E	100.3	110.0	10th "	66.7	13th "	93.9	71.5	82.7	—	78.9	
	Dinapore	Dinapore	29.676	29.790	+0.066	NE	111	97.6	10th "	66.2	13th "	86.6	69.8	78.1	-3.3	78.4	
	Rungpore	Rungpore	29.768	29.835	+0.044	E	128	90.3	10th "	67.7	13th, 15th & 16th May	85.2	69.8	77.5	-2.9	74.9	
	Julpigoree	Julpigoree	29.631	29.825	+0.021	?	215.6	94.4	10th "	—	—	84.3	—	—	—	74.1	
	Oooch Behar	Oooch Behar	29.631	29.825	+0.021	?	215.6	94.4	10th "	—	—	84.3	—	—	—	74.1	
	Darjeeling Hill Tracts	Darjeeling	22.924	—	—	ENE	180.6	69.1	10th "	46.2	13th & 14th May	59.5	48.4	54.0	-1.1	57.2	
	Purneah	Purneah	29.677	29.865	+0.045	ENE	128.7	108.8	10th "	66.0	14th "	92.5	71.1	81.8	-1.3	78.2	
	North Bhagulpore	Purneah	29.677	29.865	+0.045	ENE	128.7	108.8	10th "	66.0	14th "	92.5	71.1	81.8	-1.3	78.2	
	Mozufferpore	Mozufferpore	29.574	29.768	—	E	247.3	107.4	11th "	76.2	14th "	98.7	75.6	87.1	—	77.2	
	Durbhunga	Durbhunga	29.618	29.785	+0.031	ESE	201.5	105.9	10th "	—	—	97.5	—	—	—	77.8	
	Chumpran	Motihari	29.550	29.781	+0.030	ESE	257.4	106.2	10th "	67.8	14th & 16th May	95.6	71.0	85.3	-0.4	78.5	
	Barun	Chupra	29.532	29.749	+0.014	Variable	—	104.3	10th & 11th May	67.8	15th & 16th May	90.7	72.1	84.4	-1.9	78.9	
	Shahabad	Dehrae*	29.417	29.772	+0.060	Easterly	162.5	107.4	12 & 13 "	70.0	15th "	102.5	73.3	87.9	+0.3	87.1	
		Ruxar	29.514	29.738	+0.035	ENE	269.2	107.4	10th "	69.8	16th "	100.3	75.6	86.9	-1.1	82.7	
		Arroh	29.508	29.766	+0.039	ENE	216.2	119.4	10th "	69.7	16th "	99.6	73.9	86.8	-1.4	80.4	
	Gya	Gya	29.261	29.746	+0.023	E	163.4	111.1	10th "	68.2	14th "	102.4	76.2	89.3	-0.2	85.9	
	Patna	Bankipore	29.576	29.765	+0.023	E	220.5	112.1	10th "	68.2	16th "	97.1	73.9	84.7	-1.5	77.6	
	South Bhagulpore	Bhagulpore	29.608	29.772	+0.044	Variable	170.0	109.3	10th "	67.5	14th "	95.0	72.2	83.6	-1.9	78.7	
	Monghyr	Bhagulpore	29.608	29.772	+0.044	Variable	170.0	109.3	10th "	67.5	14th "	95.0	72.2	83.6	-1.9	78.7	
	Southal Pergunnahs	Doomka	29.274	29.772	+0.047	E	254.5	109.5	11th "	70.8	15th & 16th May	97.9	75.5	86.7	-0.3	80.9	
	Hazaribagh	Hazaribagh	27.742	29.787	0	Variable	280.4	109.0	13th "	65.3	15th "	97.4	72.2	84.8	-0.1	80.4	
	Lohardugga	Ranchee	27.629	29.739	+0.003	Variable	155.8	104.5	10th & 13th May	62.9	14th "	95.9	70.9	83.4	-0.7	79.7	
	Manbhoom	Manbhoom	28.986	29.761	+0.039	Variable	77.1	111.3	10th "	60.8	14th "	103.3	75.6	89.5	+0.3	81.6	
	Sinkbhoom	Chyenawasa	28.986	29.761	+0.039	Variable	77.1	111.3	10th "	60.8	14th "	103.3	75.6	89.5	+0.3	81.6	
		Sibaugar	29.561	29.903	+0.054	ENE	—	84.6	13th "	63.8	11th "	82.5	68.3	75.4	-2.0	73.7	
	Assam	Dhubri	29.721	29.841	+0.032	E	33.01	92.7	10th "	68.8	12th & 16th May	82.1	70.2	76.3	-1.6	75.2	
		Silchar	29.760	29.865	+0.033	ENE	—	63.6	10th "	62.4	16th "	83.0	68.6	75.7	-2.7	74.0	

* Mean for six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the reports sent in by the subdivisional stations for the period in question during the past ten years. A rainy day is one on which at least 0.1 inch of rain has fallen.

for the week ending Friday, the 16th of May 1890.

					DISTRICT OBSERVATIONS.													
Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.								Representative station.	DISTRICT.				
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1889.			Average number of rainy days.	Normal number of rainy days.						
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.								
82	3.3	0.59	0.21	0.75	0.21	1.43	-1.22	77.83	59.67	+18.16	1.5	1.2	Pooree	Pooree	ORISSA.			
85	1.6	0.36											Gopalpore					
78	4.4												Faise Point					
71	5.0	0.62	0.82	0.71	0.82	1.52	-0.70	69.26	56.44	+12.82	1.4	1.5	Cuttack	Cuttack	ORISSA.			
75	0.9	1.23	1.48	0.99	1.48	2.36	-0.88	54.51	59.70	-5.19	2.7	1.9	Balasore	Balasore				
76	6.0	0.69	1.25	1.15	1.25	2.73	-1.48	61.25	69.45	-8.20	2.7	1.8	Saugor Island	South-West Midnapore				
69	2.7	1.64	1.89	1.43	1.89	3.23	-1.34	49.82	59.07	-9.25	3.0	1.8	Midnapore	South 24-Pergunnahs	SOUTH-WEST BENGAL.			
77	4.7	2.18	1.23	1.27	1.53	3.25	-1.73	57.29	59.61	-2.32	2.3	2.1	Calcutta	24-Pergunnahs...				
70	5.6	0.21	0.07	1.04	0.34	2.59	-2.25	46.74	53.89	-7.15	1.0	1.8	Burdwan	Burdwan				
65	4.0	0.24	0.36	0.91	0.36	1.96	-1.60	57.93	57.27	+0.66	0.8	1.7	Bankoora	Bankoora	SOUTH-WEST BENGAL.			
65	4.3	Nil	0.07	0.67	0.10	0.58	-1.48	54.39	56.05	-1.66	0.8	1.5	Raneegunge	Hoerbhoom				
82	8.3	1.25	1.38	0.80	1.45	2.34	-0.89	54.41	55.97	-1.56	1.7	1.8	Berhampore	West Burdwan				
75	5.1	1.63	0.89	1.18	1.10	3.03	-1.93	55.40	57.85	-2.45	1.8	2.0	Krishnagur	Moorshedabad	SOUTH-WEST BENGAL.			
86	7.5	3.20	1.70	1.63	2.39	3.77	-1.47	60.52	63.64	-3.12	2.8	2.1	Jessore	Nudda				
80	5.6	1.03	1.86	2.54	1.86	5.23	-3.37	100.06	124.74	-15.68	4.0	3.0	Chittagong	Jessore	SOUTH-WEST BENGAL.			
			3.17	2.67	3.76	5.83	-2.69	77.9	94.74	-17.85	3.0	2.7	Demagiri	Khoolna				
81	4.7	0.22	0.92	1.87	1.18	4.10	-2.92	84.32	87.49	-3.16	1.8	2.7	Barrisal	Chittagong Hill Tracts	EAST BENGAL.			
80	2.1	4.67	3.70	3.31	4.09	6.04	-1.95	163.71	122.53	-18.82	4.5	3.0	Noakholly	Backergunge				
85	5.7	2.97	2.40	2.05	2.95	4.61	-1.60	71.49	68.90	+3.49	4.0	2.7	Furreedpore	Noakholly	EAST BENGAL.			
85	6.3	5.16	2.68	2.46	3.61	5.26	-1.45	87.42	73.68	+13.74	4.8	3.3	Dacca	Furreedpore				
85	6.7	3.75	3.19	2.95	5.61	6.22	-0.71	68.59	85.57	-16.98	6.0	3.2	Commillah	Dacca	EAST BENGAL.			
88	7.1	4.25	3.21	2.41	5.06	5.22	-0.16	101.62	79.58	+22.04	4.0	3.4	Mymensingh	Tipperah				
82	7.0	1.77	2.52	1.53	3.47	3.53	-0.66	73.16	64.45	+8.71	4.3	2.3	Bogra	Mymensingh	NORTH BENGAL.			
82	7.7	3.54	2.67	1.58	3.71	3.66	+0.05	65.11	62.50	+2.61	4.0	2.6	Serajgunge	Bogra				
77	3.0	0.57	2.18	1.00	2.85	2.52	+0.33	61.56	59.52	+2.04	2.0	1.6	Rampore Beaulah	Fubna	NORTH BENGAL.			
80	4.4	2.87	2.57	0.84	2.98	1.87	+1.11	43.23	58.20	-14.97	3.0	1.7	Maldah	Rajshahye				
85	0.0	4.32	3.40	1.07	3.91	2.20	+1.71	62.74	61.87	+0.87	3.4	1.6	Dinagore	Maldah	NORTH BENGAL.			
82	3.3	3.10	2.85	2.19	5.24	4.78	+0.46	94.90	81.63	+10.87	4.8	2.6	Rungpore	Dinagore				
84	4.7	3.25	2.55	2.22	4.38	5.27	-0.89	129.71	123.68	+6.03	5.2	3.3	Julpigoree	Rungpore	NORTH BENGAL.			
85	7.6	2.08	2.48	2.28	3.75	4.52	-0.77	142.39	133.58	+8.81	5.5	3.9	Darjeeling	Julpigoree				
79	5.6	2.44	1.68	0.98	1.77	2.22	-0.45	77.54	65.18	+14.36	2.4	1.3	Purneah	Cooch Behar	NORTH BENGAL.			
													North Bhagulpore					
74	2.7	1.54	1.29	0.82	1.29	1.29	-0.09	50.43	46.96	+4.07	2.0	1.0	Mozufferpore	Darjeeling Hill Tracts	NORTH BENGAL.			
70	4.4	0.97	1.18	0.80	1.13	1.39	-0.26	53.49	47.40	+6.09	2.0	1.0	Durbhunga	Purneah				
68	2.0	0.61	0.34	0.62	0.34	1.42	-1.08	64.45	49.74	+14.71	1.0	1.2	Motihari	Chumparun	SOUTH BENGAL.			
67	2.3	0.64	0.42	0.41	0.42	1.03	-0.61	40.74	44.92	-4.18	1.3	0.7	Chupra	Saran				
60	0.0	Nil											Dehree		SOUTH BENGAL.			
56	1.6	0.39	0.12	0.22	0.12	0.49	-0.37	40.64	41.56	-0.92	1.0	0.6	Buxar	Shahabad				
64	3.7	Nil											Arrah		SOUTH BENGAL.			
59	1.7	0.90	0.29	0.21	0.29	0.48	-0.19	37.67	43.16	-5.49	0.8	0.6	Gya	Gya				
75	3.0	2.18	1.18	0.29	1.18	0.77	+0.41	44.84	43.62	+1.22	1.8	0.7	Bankipore	Patna	SOUTH BENGAL.			
73	4.0	2.57	1.36	0.50	1.36	0.97	+0.39	44.48	45.50	-1.02	2.2	0.9	Bhagulpore	South Bhagulpore				
60	2.6	0.67	1.35	0.74	1.44	1.58	-0.14	56.73	54.15	+2.58	1.8	1.2	Doomka	Monahyr	CHUTTA NAGPUR.			
55	2.7	0.27	0.31	0.33	0.31	0.97	-0.66	43.95	53.10	-9.15	1.0	1.0	Hazaribagh	South Bhagulpore				
56	3.4	1.30	0.63	0.43	0.63	0.80	-0.17	40.72	51.84	-11.12	1.3	1.1	Ranchi	Lohardugga				
67	3.1	2.23	2.52	0.70	2.52	1.84	+0.63	52.40	56.12	-3.72	2.0	2.0	Chyabassa	Manbhoom	ASSAM.			
92	9.4	1.59											Sibsagar					
86	6.4	2.92											Dhubri	Assam				
85	9.1	4.04											Silchar		ASSAM.			

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means 17 years. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1889.	Average rainfall from 15th May to date.	
			Saturday, 10th May.	Sunday, 11th May.	Monday, 12th May.	Tuesday, 13th May.	Wednesday, 14th May.	Thursday, 15th May.	Friday, 16th May.	Number of rainy days.	Rainfall week.					
SOUTH-WEST BENGAL.	Pooree	Pooree	0.01	0.53	Nil	0.54	Nil	0.54	Nil	3	0.22	0.22	1.21	89.27	54.49	
		Khurdah	0.05	0.12	0.06	0.06	0.12	0.06	0.06	3	0.22	0.22	1.21	89.27	54.49	
		Banpur	0.05	0.12	0.06	0.06	0.12	0.06	0.06	3	0.22	0.22	1.21	89.27	54.49	
		False Point	0.05	0.12	0.06	0.06	0.12	0.06	0.06	3	0.22	0.22	1.21	89.27	54.49	
		Gop	0.05	0.12	0.06	0.06	0.12	0.06	0.06	3	0.22	0.22	1.21	89.27	54.49	
	Cuttack	Salpara	0.01	0.53	Nil	0.54	Nil	0.54	Nil	3	0.22	0.22	1.21	89.27	54.49	
		Pipli	0.01	0.53	Nil	0.54	Nil	0.54	Nil	3	0.22	0.22	1.21	89.27	54.49	
		Jagatsingapore	0.55	0.55	0.55	0.55	0.55	0.55	0.55	1	0.55	0.55	1.64	76.74	59.83	
		Banki	0.55	0.55	0.55	0.55	0.55	0.55	0.55	1	0.55	0.55	1.64	76.74	59.83	
		Cuttack	0.61	0.61	0.61	0.61	0.61	0.61	0.61	1	0.61	0.61	1.45	76.19	61.15	
	Balasore	Kendrapara	0.12	0.63	0.77	1.07	0.77	0.77	0.77	3	1.84	1.84	2.03	100.30	59.71	
		Jajpore	0.77	0.77	0.77	0.77	0.77	0.77	0.77	2	0.77	0.77	1.04	45.60	59.02	
		Dharmasala	0.45	0.45	0.45	0.45	0.45	0.45	0.45	2	0.45	0.45	1.04	45.60	59.02	
		Salipore	0.40	0.40	0.40	0.40	0.40	0.40	0.40	2	0.40	0.40	1.04	45.60	59.02	
		Chanduali	0.80	0.13	1.85	0.13	1.85	0.13	1.85	3	1.98	1.98	2.74	57.69	58.29	
SOUTH-WEST BENGAL.	Midnapore	Bhuddruck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	3	1.50	1.50	2.27	62.88	58.61	
		Sorah	0.30	0.30	0.30	0.30	0.30	0.30	0.30	3	0.90	0.90	2.26	49.71	57.69	
		Balasore	0.77	0.77	0.77	0.77	0.77	0.77	0.77	2	0.77	0.77	2.40	51.77	58.55	
		Jellapore	0.22	0.22	0.22	0.22	0.22	0.22	0.22	2	0.22	0.22	1.04	45.60	59.02	
		Raripodah	1.15	1.15	1.15	1.15	1.15	1.15	1.15	3	2.53	2.53	2.53	60.04	60.01	
	24-Pergunnahs	Contai	0.15	0.25	0.25	0.25	0.25	0.25	0.25	2	0.46	0.46	2.61	57.99	67.74	
		Saugor Island	0.58	0.21	0.40	0.40	0.40	0.40	0.40	3	0.69	0.69	2.88	58.33	73.27	
		Tumlook	0.30	0.63	0.90	0.90	0.90	0.90	0.90	3	1.70	1.70	2.88	58.33	73.27	
		Midnapore	0.50	0.81	0.25	0.25	0.25	0.25	0.25	3	1.56	1.56	3.23	49.39	55.98	
		Ghattal	0.25	1.39	0.76	0.76	0.76	0.76	0.76	3	2.40	2.40	3.59	47.75	62.45	
	Howrah	Kurrahaty	0.45	0.39	1.09	1.09	1.09	1.09	1.09	3	1.93	1.93	2.70	63.70	62.45	
		Garbetta	0.55	0.55	0.55	0.55	0.55	0.55	0.55	1	0.55	0.55	1.04	45.60	59.02	
		Diamond Har- bour	1.09	0.35	1.15	1.15	1.15	1.15	1.15	3	2.59	2.59	3.19	67.33	67.15	
		Canning Town	0.43	0.12	0.54	0.54	0.54	0.54	0.54	3	1.09	1.09	2.29	59.55	67.15	
		Alipore Jail	0.31	0.63	1.36	1.36	1.36	1.36	1.36	3	1.90	1.90	3.10	56.10	61.39	
SOUTH-WEST BENGAL.	Burdwan	Barrackpore	0.15	0.15	0.15	0.15	0.15	0.15	0.15	2	0.30	0.30	1.10	55.79	57.90	
		Dum-Dum	0.32	0.32	0.32	0.32	0.32	0.32	0.32	3	0.96	0.96	3.25	67.49	59.70	
		Buraset	0.83	0.83	0.83	0.83	0.83	0.83	0.83	2	1.66	1.66	3.53	61.81	58.29	
		Buseerhat	0.23	0.23	0.23	0.23	0.23	0.23	0.23	2	0.46	0.46	2.32	70.91	62.96	
		Howrah	0.01	0.06	0.13	0.55	0.55	0.55	0.55	4	0.75	0.75	3.18	61.08	60.78	
	Hooghly	Meheroka (Oolcheriah.)	0.63	0.37	0.37	0.37	0.37	0.37	0.37	2	1.00	1.00	4.08	56.28	60.17	
		Serampore	0.18	0.02	0.02	0.02	0.02	0.02	0.02	2	1.10	2.37	3.11	59.14	57.90	
		Hooghly	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1	0.03	0.37	3.33	58.33	56.92	
		Jehanabad	0.09	1.16	1.16	1.16	1.16	1.16	1.16	2	1.25	1.25	2.80	45.35	62.24	
		Culina	0.17	0.02	0.02	0.02	0.02	0.02	0.02	Nil	Nil	0.41	2.81	44.73	58.63	
	Bankoora	Burdwan	0.17	0.02	0.02	0.02	0.02	0.02	0.02	3	0.41	0.41	2.81	44.73	58.63	
		Cutwa	0.17	0.02	0.02	0.02	0.02	0.02	0.02	Nil	Nil	0.40	2.61	46.62	54.90	
		Ranegunge	0.17	0.02	0.02	0.02	0.02	0.02	0.02	Nil	Nil	1.52	57.57	53.44	53.44	
		Manikpur	0.17	0.02	0.02	0.02	0.02	0.02	0.02	Nil	Nil	?	55.60	?	?	
		Bankoora	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	1.73	53.29	56.86	
SOUTH-WEST BENGAL.	Beerbhoom	Bahenpore	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	2.30	59.25	56.86	
		Mahara	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	1.50	58.54	56.86	
		Khutra	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1	0.09	0.09	1.79	67.61	55.61	
		Indas	0.24	0.24	0.24	0.24	0.24	0.24	0.24	1	0.24	0.24	?	47.36	58.99	
		Kotalpore	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1	1.45	1.45	?	53.44	?	
	Nudda	Anda	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1	1.09	1.09	?	42.34	?	
		Gangajalghati	0.22	0.22	0.22	0.22	0.22	0.22	0.22	2	0.44	0.44	?	69.82	?	
		Kaipore	0.22	0.22	0.22	0.22	0.22	0.22	0.22	2	0.44	0.44	?	69.79	?	
		Sonamukhi	0.22	0.22	0.22	0.22	0.22	0.22	0.22	2	0.44	0.44	?	55.93	?	
		Bh. Soory	0.06	0.06	0.06	0.06	0.06	0.06	0.06	2	0.07	0.07	1.07	60.92	58.94	
	Jessore	Hatnampore	0.29	0.29	0.29	0.29	0.29	0.29	0.29	1	0.29	0.29	1.46	50.21	58.23	
		Rampore Haat	0.19	0.19	0.19	0.19	0.19	0.19	0.19	1	0.19	0.19	1.80	48.80	56.42	
		Boipore	0.19	0.19	0.19	0.19	0.19	0.19	0.19	1	0.19	0.19	1.80	48.80	56.42	
		Murari	0.19	0.19	0.19	0.19	0.19	0.19	0.19	1	0.19	0.19	1.80	48.80	56.42	
		Ranaghat	0.07	0.07	0.07	0.07	0.07	0.07	0.07	Nil	Nil	0.50	2.59	55.55	55.15	
SOUTH-WEST BENGAL.	Khowla	Kishunghur	0.07	0.07	0.07	0.07	0.07	0.07	0.07	2	1.01	1.01	3.18	46.19	54.30	
		Choudanga	0.06	0.06	0.06	0.06	0.06	0.06	0.06	3	1.12	1.12	3.48	53.96	60.29	
		Meherpore	0.06	0.06	0.06	0.06	0.06	0.06	0.06	2	0.21	0.21	2.05	55.55	56.25	
		Kooshtia	1.36	0.09	0.06	0.06	0.06	0.06	0.06	3	1.51	1.76	3.24	62.29	63.68	
		Satkhira	0.20	0.02	0.06	0.54	1.10	1.10	1.10	5	1.72	1.83	3.36	60.79	64.97	
	Moorsheadabad	Bagirhat	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	3.93	58.35	71.92	
		Khowla	0.25	0.25	0.25	0.25	0.25	0.25	0.25	3	0.75	0.75	4.04	63.67	65.45	
		Nakipore	0.43	0.43	0.43	0.43	0.43	0.43	0.43	2	0.86	0.86	?	?	?	
		Rampal	0.43	0.43	0.43	0.43	0.43	0.43	0.43	2	0.86	0.86	?	?	?	
		Narail	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2	0.28	0.28	4.21	59.42	56.48	
	SOUTH-WEST BENGAL.	Chittagong	Jessore	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2	0.28	0.28	4.21	59.42	56.48
			Jhenidah	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2	0.28	0.28	4.21	59.42	56.48
			Magorah	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2	0.28	0.28	4.21	59.42	56.48
			Bongong	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2	0.28	0.28	4.21	59.42	56.48
			Kandi	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1	1.08	1.08	2.12	58.28	56.67
Chittagong		Berhampore	1.08	1.08	1.08	1.08	1.08	1.08	1.08	2	1.26	1.26	2.60	48.14	57.67	
		Lalbach	0.09	0.09	0.09	0.09	0.09	0.09	0.09	2	0.37	0.67	2.48	48.07	56.68	
		Azimung	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1	0.09	0.09	2.20	56.44	56.44	
		Jungipore	0.40	0.40	0.40	0.40	0.40	0.40	0.40	2	0.41	0.47	2.11	57.90	53.73	
		Lalgaon	0.40	1.62	1.62	1.62	1.62	1.62	1.62	2	2.02	2.02	2.51	65.98	56.35	
Chittagong		Jhagunee	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2	0.08	0.08	?	40.88	?	
		Akkrigunaj	0.16	0.16	0.16	0.16	0.16	0.16	0.16	2	0.32	0.32	?	?	?	
		Patkabari	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2	0.71	0.71	?	43.26	?	
		Patkabari	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2	0.					

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1880.	Average rainfall from 15th May to date.
			Saturday, 10th May.	Sunday, 11th May.	Monday, 12th May.	Tuesday, 13th May.	Wednesday, 14th May.	Thursday, 15th May.	Friday, 16th May.	Number of rainy days.	Rainfall of week.				
EAST BENGAL -concid.	Gournaddi	Gournaddi	.....	.....	.....	1'00	1'80	0'30	.....	3	3'10	3'10	?	71'01	?
		Bauphai	.....	.....	.....	.....	0'26	.....	0'08	2	0'92	0'92	?	65'86	?
		Noakholly	.....	1'08	0'20	0'78	.....	0'50	0'60	5	4'44	4'66	0'55	115'95	122'04
	Furreedpore	Fenny	.....	.....	0'16	1'12	.....	0'55	1'25	5	3'07	3'50	0'53	91'39	123'30
		Harishpore	.....	0'50	.....	1'01	0'12	2'72	.....	4	4'33	5'39	?	98'44	?
		Ramganj	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
	Dacca	Madaripore	.....	0'15	.....	.....	.....	0'34	0'54	3	1'03	1'74	5'44	71'66	68'61
		Furreedpore	.....	0'86	1'20	0'14	0'52	0'50	.....	5	3'22	4'04	4'24	73'86	68'61
		Goalundo	.....	.....	0'30	1'67	.....	0'57	0'40	4	2'94	3'08	4'14	68'92	64'03
	Hill Tipperah	Munshigunge	.....	0'28	.....	0'33	.....	0'56	0'03	4	1'80	2'87	5'44	87'09	84'79
		Dacca	.....	1'12	2'38	0'18	.....	0'12	1'21	5	5'01	6'06	5'18	91'05	72'36
		Narsinkunge	.....	0'66	0'21	0'09	0'11	0'16	1'09	6	2'32	3'67	3'06	91'80	73'95
	Tipperah	Manickgunge	.....	.....	0'27	0'10	0'20	0'80	0'20	4	1'57	2'81	3'34	70'67	62'50
		Joydepore	.....	0'02	1'86	0'06	0'46	0'50	0'34	6	5'24	4'36	?	80'22	?
		Agartola	.....	0'05	.....	.....	0'23	0'85	0'88	5	2'81	6'24	6'67	60'07	78'94
	Mymensingh	Comilla	.....	1'10	1'63	0'37	0'14	1'13	0'38	6	4'77	5'69	6'07	71'36	91'96
		Chandpore	.....	0'15	0'35	0'83	0'40	0'43	0'23	6	2'39	3'49	5'72	75'96	88'06
		Brahmunberia	.....	0'04	0'06	0'78	0'50	0'13	0'40	7	2'78	6'67	6'42	66'33	70'30
	Kasba	Ramchandrapore.	.....	1'64	1'40	.....	.....	0'91	0'15	5	4'21	5'81	?	70'36	?
		Nasirnagar	.....	.....	2'20	1'30	.....	1'50	1'15	4	5'95	10'23	?	62'84	?
		Daudkandi	.....	1'52	0'73	.....	.....	0'42	0'71	4	3'40	3'40	?	68'94	?
	Luksham	Kasba	.....	0'42	1'20	.....	1'30	.....	0'00	4	3'82	3'82	?	72'35	?
		Luksham	.....	0'79	0'20	.....	1'65	.....	0'15	4	2'79	4'54	?	81'29	?
		Kishorekunee	.....	.....	2'32	0'11	.....	1'20	0'09	4	4'22	5'30	5'79	82'08	84'77
	Atia (Tangail)	Atia (Tangail)	.....	.....	1'05	.....	.....	2'21	0'32	3	3'88	5'06	3'06	76'04	65'50
		Mymensingh	.....	0'45	2'00	0'39	0'08	1'00	0'16	6	4'08	5'56	5'02	111'28	86'66
		Jamulpore	.....	0'40	.....	.....	0'69	0'40	0'22	4	1'71	4'52	5'11	99'40	75'09
	Netrokona	Netrokona	.....	.....	1'02	.....	0'43	0'11	3						

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 10th May.	Sunday, 11th May.	Monday, 12th May.	Tuesday, 13th May.	Wednesday, 14th May.	Thursday, 15th May.	Friday, 16th May.	Number of rainy days.	Rainfall of week.				
NORTH BHAR	Chumpran...	Motihari	...	...	...	0.05	0.02	...	...	Nil	Nil	Nil	1.20	75.53	47.54
		Bettiah	...	...	...	...	0.12	...	...	2	0.07	0.07	1.63	53.34	51.35
		Bagaha	...	...	...	...	0.12	...	...	1	0.12	0.12	?	71.27	?
SOUTH BHAR	Shahabad	Burhura	...	...	...	...	1.45	...	...	1	1.45	1.45	?	53.39	?
		Gopalgunge	...	...	...	...	0.14	...	...	1	0.14	0.14	1.09	35.87	46.06
		Chuprah	...	...	...	0.29	0.35	...	...	2	0.29	0.35	0.77	44.63	45.78
SOUTH BHAR	Shahabad	Buxar	...	...	...	0.27	0.08	...	...	2	0.27	0.08	0.70	41.82	42.20
		Dehri	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	48.19	39.83
		Bhaboah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.25	43.99	41.33
SOUTH BHAR	Shahabad	Sasaram	...	...	...	...	0.08	...	...	1	0.08	0.08	0.61	38.61	42.77
		Arrah	...	...	...	...	0.04	0.03	...	2	0.07	0.07	0.54	30.51	42.14
		Mehaulah	...	...	...	...	...	...	...	?	?	?	0.06	42.92	41.09
SOUTH BHAR	Gya	Aurangabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0.42	35.78	44.27
		Gya	...	...	...	...	0.10	...	...	1	0.10	0.10	0.33	41.10	44.16
		Nowadah	...	...	...	0.15	...	...	...	1	0.15	0.15	0.05	39.87	42.02
SOUTH BHAR	Gya	Jehanabad	...	...	...	...	...	...	...	1	0.09	0.09	0.49	35.86	41.56
		Arwal	...	...	...	0.07	...	...	...	1	0.07	0.07	?	35.25	?
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29.09	?
SOUTH BHAR	Gya	Sherrghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	29.29	?
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	17.94	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	Nil	?	31.96	?
SOUTH BHAR	Patna	Patna	...	...	...	1.86	0.06	0.26	...	3	2.18	2.18	0.75	53.78	43.71
		Unaspore	...	...	...	1.10	0.21	...	...	2	1.31	1.31	0.54	46.90	42.83
		Behar	...	...	...	...	...	...	...	Nil	Nil	Nil	0.85	41.39	43.93
SOUTH BHAR	Patna	Barrh	...	...	...	0.80	0.43	...	...	2	1.23	1.23	0.84	37.26	41.06
		Bickram	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44.23	?
		Hilse	...	...	...	...	...	...	...	Nil	Nil	Nil	?	35.94	?
SOUTH BHAR	Monghyr	Begoeserai	...	...	...	1.07	0.10	0.41	...	3	1.58	1.58	0.97	49.76	42.32
		Monghyr	...	...	...	1.58	...	0.03	...	2	1.60	1.60	0.89	43.38	45.72
		Jamui	...	...	...	...	...	0.14	...	1	0.14	0.14	0.91	39.72	45.46
SOUTH BHAR	South Bhagulpore	Gogri	...	...	...	2.45	...	...	...	1	2.45	2.45	?	61.04	?
		Sheikhpura	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.32	?
		Bhagulpore	...	...	...	1.50	0.94	0.15	...	3	2.59	2.59	1.07	47.41	44.86
SOUTH BHAR	South Bhagulpore	Banks	...	...	...	1.03	...	0.17	...	2	1.20	1.20	0.97	42.13	44.14
		Koinga	...	...	...	1.90	...	0.25	...	2	2.15	2.15	?	49.28	?
		Bongaon	...	...	...	...	1.30	...	...	1	1.30	1.30	?	?	?
SOUTH BHAR	Sonthal Pergunnahs.	Rajmehal	...	...	...	0.89	0.32	1.24	...	3	2.25	2.25	2.39	69.04	56.30
		Godda	...	...	...	0.75	0.85	0.65	...	3	2.25	2.25	1.36	52.02	50.30
		Pakour	...	...	...	0.96	1.25	1.12	...	3	3.33	3.78	1.25	78.82	58.09
SOUTH BHAR	Sonthal Pergunnahs.	Nya Duemka	...	...	...	0.07	...	...	...	1	0.07	0.07	1.37	58.49	57.19
		Deoghar	...	...	...	...	...	...	...	Nil	Nil	Nil	1.46	41.22	41.22
		Jamtara	...	...	...	0.21	...	...	...	1	0.21	0.21	1.53	46.78	43.35
SOUTH BHAR	Sonthal Pergunnahs.	Mohagama	...	...	...	1.25	...	...	...	1	1.25	1.25	?	57.30	?
		Namihat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57.03	?
SOUTH BHAR	Hazariabagh	Pachamba	...	...	...	...	0.15	...	...	1	0.15	0.15	0.86	39.39	59.32
		(Girdi)	...	...	...	...	...	...	...	?	?	?	?	?	?
		Hazariabagh	...	...	...	...	0.29	0.07	...	2	0.27	0.27	0.82	49.78	49.74
SOUTH BHAR	Hazariabagh	Semtaurab	...	...	...	...	...	...	...	?	?	?	1.12	50.00	50.00
		Mahudi Hills	...	...	...	...	...	...	...	?	?	?	0.77	50.30	50.30
		Jhoomra Hills	...	...	...	...	...	...	...	?	?	?	1.25	50.31	50.31
SOUTH BHAR	Lohardugga	Barkh	...	...	...	0.23	...	...	...	1	0.23	0.23	?	32.21	?
		Chatra	...	...	...	0.90	...	...	...	1	0.90	0.90	?	47.99	?
		Karagdeha	...	...	...	...	0.89	...	...	1	0.89	0.89	?	49.94	?
SOUTH BHAR	Lohardugga	Ramghar	...	...	...	1.25	0.35	...	...	2	1.60	1.60	?	?	?
		Lohardugga	...	...	...	0.55	...	...	...	1	0.55	0.55	0.78	47.28	55.71
		Kanhi	...	...	...	0.90	0.29	0.23	...	3	1.35	1.35	1.22	57.28	56.29
SOUTH BHAR	Lohardugga	Salanow	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	35.30	49.19
		Sila	...	...	...	...	...	0.80	...	1	0.80	0.80	?	35.00	?
		Balumat	...	...	...	...	...	...	...	Nil	Nil	Nil	?	44.79	?
SOUTH BHAR	Singhoom	Hosseinabad	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Gareah	...	...	...	...	...	...	...	?	?	?	?	?	?
		Chyebasa	...	...	...	...	1.16	1.36	...	2	2.52	2.52	1.84	52.40	56.34
SOUTH BHAR	Singhoom	Chakradharpore	...	...	...	...	...	...	...	?	?	?	?	?	?
		Chaitilla	...	...	...	0.16	1.19	0.14	...	3	?	?	?	?	?
		Kakaragura	...	...	...	1.85	0.97	...	...	2	2.82	2.82	?	69.84	?
SOUTH BHAR	Manbhoom	Parulla	...	...	...	0.75	0.28	...	...	2	1.03	1.03	1.72	46.09	53.03
		Gobindpore	...	...	...	0.15	...	...	...	1	0.15	0.15	0.49	34.23	47.89
		Kaphunathpore	...	...	...	0.25	...	...	...	1	0.25	0.25	?	46.57	?
SOUTH BHAR	Manbhoom	Barrabhoom	...	...	...	...	...	0.70	...	1	0.70	0.70	?	46.52	?
		Jhaida	...	...	...	...	...	0.70	...	1	0.70	0.70	?	52.50	?
		Cas	...	...	...	...	0.50	...	...	1	0.50	0.50	?	59.92	?

Explanation.—... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 19th May 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
16TH OF MAY 1890.

THE week commenced with fine weather over the whole province, pressure was very low but rising, temperature excessive in nearly all districts, normal circulation of winds obtained, the westerly winds in Behar extending as far as Bhagulpore and the south-westerly winds from the Bay over the greater part of South-West and East Bengal.

These conditions lasted on the eastern side of the province for one day only, for on the 11th a much more rapid rise of pressure in East Bengal as compared with that on the west caused strong easterly winds and probably an inrush of the moist winds which had followed the depression into Burmah a few days before. Rain began to fall in East Bengal on the 11th, but it was chiefly confined to Dacca, Farreedpore, and Tipperah. A few showers fell in North Bengal also, but these do not seem to be due to the same disturbance, as they were not numerous on the 10th, and continued to diminish in number and amount till the 12th. Meanwhile, in the other districts very hot dry weather prevailed, more especially in Orissa and South-West Bengal. On the 11th temperature fell rapidly except in South-West Bengal and along the extreme west, followed by variable changes on the 12th, and as the moist current spread over the province, causing storms in Behar and South-West Bengal on the 13th, the rapid fall extended to these districts, and by the 14th temperature was normal or in defect. On this day the disturbed conditions appeared in Orissa, and over South-West Bengal and the adjacent parts of Orissa and Chutia Nagpur northerly winds were blowing, gradients still continued steep from south-west to north-east, and from the general bearing of the wind directions, a steady current seemed blowing from North Bengal over the whole province. General rain was falling except in the northern districts of South-West Bengal, and by far the heaviest falls were in North Bengal and the Mymensingh district. Similar conditions obtained till the end of the week, pressure continued lowest over the west or south of the province, but from the 14th gradients slowly became less steep, though the wind circulation remained. Heavy showers fell and temperature underwent large and irregular changes, according to the nature of the storms as they occurred at the various stations. Pressure was falling during the latter part of the week, and though everywhere in excess, the difference from the normal was very slight in Orissa and about a twentieth of an inch over the northern half of Bengal. On Friday the 16th, a shallow depression was over the head of the Bay, but, though it may have caused the slightly cyclonic circulation at the neighbouring stations, it had little influence on the general weather which was everywhere recovering from the disturbance.

Thus during the greater part of the week, all the meteorological elements have been subject to large changes, and the unsettled weather has been general over the whole province during the last three days.

Pressure.—On an average for the whole week has been a few hundredths of an inch above the normal, but this is due to the large upward and downward changes balancing one another. At one time the difference from the normal has been nearly two-tenths above, and at another as much below, while in the middle of the week differences from west to east were unusually large, giving steep gradients and the strong easterly or northerly winds which then blew. At first defect varied from $\cdot 1$ inch to $\cdot 17$ inch, but owing to the very rapid rise on the 11th in the north-east, defect on that day was generally below a twentieth of an inch. On the 13th there was a rapid rise in East Bengal and a slow rise along the northern limit and in Orissa; on the 14th the rise was rapid in the western districts and slow in East Bengal, after which there was a brisk fall on the 15th and 16th.

Temperature.—Was everywhere above the normal on the first day of the week by from 5° to 12° over the greater part of the province. With the commencement of the disturbed conditions local rapid falls occurred, the south-western districts being the last to feel the change. On the 11th the rapid fall extended over East and North Bengal and part of Behar. On the 12th it was confined to East Bengal, on the 13th to South-West Bengal and Orissa, and on the 14th to Chutia Nagpur, South-West Bengal, and Orissa; but on this day the fall in Chutia Nagpur exceeded 10° , and 4° over the greater part of the province. There was then a very large defect over the western districts, gradually diminishing towards the east, and it continued with very little change till the end of the week, when defect varied from 6° to 10° . The means for the week are all below the normal except those for South-West Bengal and Orissa.

Rainfall.—A few local showers were falling in North Bengal on the 10th, but elsewhere practically no rain fell. On the 11th showers became more numerous in East Bengal, and on the 12th rain was almost general, but beyond the local showers in North Bengal, it was still dry weather over the rest of Bengal. On the 13th general rain fell in all districts except Orissa, Chutia Nagpur, the west of South-West Bengal, and the southern half of East Bengal, and on the 14th it was falling at almost every reporting station. Rain fell off towards the end of the week in the western districts, but scattered showers continued and general rain in North and East Bengal. The average fall is above the normal in all districts except South-West Bengal, but defect in that district is only a tenth of an inch. The fall in North Bengal is 2.7 inches (more than an inch in excess), in East Bengal 2.5 inches, and in the other districts about one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 16th of May 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	107.4	68.9	94.2	79.3	86.7	+1.4	1.00	0.83	+0.17	2.3	1.6	+0.7	1.00	1.83	65.78	58.58
South-West Bengal ...	111.5	67.2	98.6	77.1	87.8	+2.3	1.08	1.18	-0.10	2.0	1.9	+0.1	1.31	2.87	66.24	69.36
East Bengal	100.5	65.7	88.9	73.5	81.2	-0.2	2.53	2.47	+0.06	4.0	3.0	+1.0	3.56	5.25	57.13	87.37
North Bengal	110.0	66.2	89.8	71.5	80.6	-1.7	2.73	1.57	+1.16	4.0	2.3	+1.7	3.93	3.87	81.04	78.18
North Behar*	108.8	66.0	96.2	72.4	84.1	-0.9	1.65	0.76	+0.89	1.9	1.1	+0.8	1.11	1.56	60.48	51.97
South Benar	112.1	67.5	99.3	73.8	86.6	-0.3	0.89	0.42	+0.47	1.5	0.8	+0.7	0.91	0.91	45.66	46.05
Chutia Nagpur	106.0*	62.2*	96.7*	71.6*	84.1*	-0.4*	0.80	0.46	+0.34	1.8	1.2	+0.6	0.80	1.00	44.96	62.67
Assam	93.5	62.4	82.5	69.0	75.8	-2.1										

* Durbhunga and Chyebassas not included.

METEOROLOGICAL OFFICE, BENGAL;

C. LITTLE,

The 20th May 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 11th to 17th May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	11th ...	29.679	90.3	99.2	17.9	81.3	98.6	83.0	.987	78.3	63	...
" " ...	12th ...	.734	89.5	98.0	17.0	81.0	98.6	80.0	.841	74.0	53	...
" " ...	13th ...	.831	86.4	92.5	12.2	80.3	90.6	81.3	.943	77.5	65	0.09
" " ...	14th ...	.896	83.5	92.2	17.4	74.3	82.6	77.3	.867	74.2	78	0.38
" " ...	15th ...	.832	81.8	92.7	21.9	70.8	84.8	76.5	.802	72.6	67	0.14
" " ...	16th ...	.807	79.8	90.0	20.4	69.6	77.1	74.5	.821	73.3	89	0.74
" " ...	17th ...	.760	83.9	94.0	20.2	73.8	87.6	79.5	.900	76.0	69	0.21

The mean 10 A.M. pressure of the seven days Inches. 29.791

The mean temperature of the seven days 85.0

The extreme variation of temperature 29.6

The maximum temperature 99.2

The mean 10 A.M. relative humidity of the seven days 69

The total fall of rain from 11th to 17th May 1890 Inches. 1.56

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 19th May 1890.

MEMORANDUM.

Weekly Review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 3rd May 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 3rd May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 14.1 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	21.0	17.5	15.9	16.4	15.3	17.8	14.1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.		12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.
Burdwan	10.7	20.5	22.9	9.2	Narainganj	24.8	41.4	24.8	20.7
Midnapore	10.8	15.5	17.0	12.4	Chittazong	9.4	2.3	11.7	9.4
Hughli and Chinsurah	24.6	24.6	34.6	23.0	Comillah	...	11.6	30.8	42.4
Serampore	11.8	37.3	9.8	13.7	Patna	13.0	7.8	6.2	5.5
Utterpara	...	18.9	9.4	9.4	Gya	19.1	15.7	21.9	13.3
Howrah	14.3	17.6	13.2	17.8	Arrah	10.8	14.4	10.8	14.4
Bali	14.0	10.5	7.0	21.1	Mozufferpore	12.2	13.4	10.9	10.9
Kishnagar	18.9	22.7	3.8	22.7	Durbhanga	22.0	21.2	21.2	16.5
Ranaghat	20.9	24.0	12.0	6.0	Chupra	2.0	9.1	22.1	14.1
Santipore	17.5	3.8	7.0	18.8	Bhagalpore	14.5	21.7	18.1	19.0
Jessore	18.4	18.4	6.1	...	Monghyr	17.3	25.3	19.0	17.2
Rampore Beaulah	23.6	31.5	34.2	21.9	Purneah	17.3	24.2	38.1	34.6
Darjiling	14.8	14.8	7.4	14.8	Poori	16.8	21.0	18.9	16.8
Dacca	14.9	15.6	23.4	6.5					

It will be seen that last week the highest birth-rate was returned from Comillah (42.4) and the lowest from Patna City (5.5). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 26.7 per 1,000 of the population. The rate of the week is 4.2 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	20.7	21.0	21.3	20.5	20.3	22.5	26.7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.		12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.
Burdwan	33.0	20.0	22.9	21.4	Narainganj	41.4	12.4	8.3	16.6
Midnapore	34.1	20.1	13.0	17.0	Chittazong	9.4	2.3	21.1	2.3
Hughli and Chinsurah	60.7	55.8	54.2	65.6	Comillah	19.3	11.6	11.6	19.3
Serampore	31.4	47.1	49.1	31.4	Patna	23.0	39.6	40.6	26.3
Utterpara	28.3	...	47.2	47.2	Gya	63.5	44.4	84.2	32.8
Howrah	21.8	30.9	19.3	17.2	Arrah	12.0	28.7	33.8	23.1
Bali	24.6	21.1	10.3	31.6	Mozufferpore	13.3	18.2	19.5	21.9
Kishnagar	17.0	11.4	7.6	15.1	Durbhanga	18.1	28.3	24.4	28.3
Ranaghat	1.0	6.0	...	47.9	Chupra	2.0	9.1	22.1	20.1
Santipore	8.7	3.5	5.3	8.8	Bhagalpore	23.5	29.9	34.4	46.2
Jessore	6.1	42.8	18.4	24.5	Monghyr	38.0	28.9	37.1	32.2
Rampore Beaulah	30.4	36.8	36.8	18.4	Purneah	31.2	34.6	31.3	27.7
Darjiling	74.1	50.3	103.7	118.6	Poori	58.7	58.7	44.1	35.7
Dacca	23.1	15.6	25.6	17.5					

It will be seen that last week the highest mortality occurred in the town of Darjiling (118·6) and the lowest in Chittagong (2·3).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Hughli and Chinsurah 26·3	Ranaghat ... 17·9	Darjiling ... 108·7	Serampore ... 17·6
Patna City ... 13·3	Pooree ... 6·3	Bhagulpore ... 24·4	Bhagulpore ... 16·3
Monghyr ... 8·1	Chupra ... 5·0	Purneah ... 24·2	Gya ... 11·6
Chupra ... 5·0	Howrah ... 2·9	Hugli and Chin-surah. 23·0	Poori ... 10·5
Dacca ... 4·5		Arrah ... 21·5	
Durbhanga ... 3·9		Bali ... 21·1	
Bhagulpore ... 3·6			

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 4·9 from cholera, against 5·6 per 1,000 in the preceding week; 1·2 from small-pox, against 7; 12·4 from fever, against 15·2; 1·9 from bowel-complaints, against 1·7; 4 from injury, against the same ratio; and 5·9 from other causes, against 5·6 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males ... 31·3	Christians ... 22·4	Under 1 year ... 165·9
Females ... 21·8	Hindus ... 26·7	1 and under 5 years ... 31·3
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ... 143	Mahomedans ... 27·2	5 " 10 " ... 12·7
		10 " 15 " ... 8·1
		15 " 20 " ... 23·8
		20 " 30 " ... 15·8
		30 " 40 " ... 22·8
		40 " 50 " ... 29·0
		50 " 60 " ... 33·6
		60 years and upwards ... 54·6

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 19th May 1890.

Sanitary Commissioner for Bengal.

Government Publishing its Accounts of the Regulation of Exchequer & Finance in Bengal during the week ending on Saturday, the 3rd May 1890.

[illegible]

DISTRICTS.		NAMES OF MUNICIPALITIES.		Class.					MORTALITY ACCORDING TO—															Age.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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														Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Burdwan	Burdwan	11	3	34.2	15.3

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

The 19th May 1890.

Statements showing quantities of Goods carried during the month of February 1890.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG " 4 "

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
28	1. Grain ...	31	222	253	9,572	253	9,572	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
21	7. Building materials ...	.....	361	361	522	202	310	
1	8. Miscellaneous ...	.....	7	7	20	7	20	
...	9. Fuel ...	.....	.....	.....	.....	...	.....
10 rafts	10. Timber ...	.....	142 No.	142 No.	233	142 No.	233	
22 "	11. Bamboos ...	.....	19,400 "	19,400 "	342	19,400 "	342	
50 & 32 rafts.	12. Total ...	{ 31	590 & 19,542 No.	621 & 19,542 No.	{ 10,689 }	462 & 19,542 No.	{ 10,477 }	
68 & 35 rafts.	13. Total of same month last year.	{ 118	576 & 16,498 No.	694 & 16,498 No.	{ 13,398 }	649 & 16,498 No.	{ 13,290 }	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		9	41	50	Total tollage of month— 24 + 25 + 26 + 26½ ...			310 0 0
15. Total number of boats plying passenger No.		10	5	15				
15½. Total empty boats "		39	17	56	Total tollage of same month last year ...			370 11 0
16. Total registered tonnage, cargo, private Tons		63	714	777				
16½. Ditto ditto, Government Tons		.....	264	264				
17. Total registered tonnage, passenger Tons		270	45	315	Memorandum of Tollage.			
17½. Ditto empty "		352	223	575				
18. Ton-mileage ...		9,857	21,268	31,125				
19. Estimated value of cargo Rs.		3,462	6,652	10,114				Rs. A. P.
20. Number of passengers ...		698	97	795	1. Balance not recovered on the 1st of the month ...			2 10 0
21. Rafts, bamboos No.		.....	19,400	19,400	2. Tollage per month ...			310 0 0
22. Do., bullahs "		.....	142	142	3. Total ...			312 10 0
23. Estimated value of rafts Rs.		.....	575	575	4. Amount credited in the accounts of the month ...			303 0 0
24. Tollage on boats "		78-9-0	198-8-0	277-1-0	5. Balance due at the end of the month ..			9 10 0
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts "		.....	31-5-0	31-5-0				
26½. Demurrage of a bamboo raft Rs.		.....	1-10-0	1-10-0				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-70				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....	

KENDRAPARA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
257	1. Grain ...	1,613	2,497	4,110	2,16,490	4,110	2,16,490
2	2. Cotton ...	1	1	2	500	2	500
23	3. Oilseeds ...	2	452	454	73,740	454	73,740
18	4. Salt ...	31	37	68	5,800	68	5,800
2	5. Piece-goods ...	95	.....	95	42,000	95	42,000
1	6. Metal ...	3	.....	3	700	3	700
104	7. Building materials ...	21	994	1,015	13,590	397	11,260
138	8. Miscellaneous ...	384	206	590	1,55,370	590	1,55,370
7	9. Fuel ...	41	.....	41	120	41	120
44 rafts	10. Timber ...	.....	18,744 c. ft.	18,744 c. ft.	12,490	18,744 c. ft.	12,490
36 „	11. Bamboos ...	.....	25,112 „	25,112 „	3,120	25,112 „	3,120
552 & 80 rafts.	12. Total ...	{ 2,191	4,187 & 43,856 c. ft.	6,378 & 43,856 c. ft.	5,23,920 {	5,760 & 43,856 c. ft.	5,21,590 }
538 & 62 rafts.	13. Total of same month last year. }	1,660	2,077 & 105,055 No.	3,737 & 105,055 No.	3,59,640 {	3,280 & 105,055 No.	3,57,020 }
		Up.	Down.	Total.			
14. Total number of boats plying cargo No.		221	331	552	Total tollage of month— 24 + 25 + 26 ...		
15. Total number of boats plying passenger No.		57	50	107	7,917 2 4		
15½. Ditto empty boats „		294	223	517	Total tollage of same month last year ...		
16. Total registered tonnage, cargo, private Tons		2,387	6,575	8,962	5,775 1 0		
16½. Ditto ditto, Government „		27	1,373	1,400			
17. Total registered tonnage, passenger Tons		2,200	1,471	3,671	Memorandum of Tollage.		
17½. Ditto ditto empty boats „		3,027	793	3,820			
18. Ton-mileage ...		353,407	411,479	764,886	Rs. A. P.		
19. Estimated value of cargo Rs.		1,87,870	3,20,440	5,08,310	1. Balance not recovered on the 1st of the month ...		
20. Number of passengers ...		3,554	3,893	7,447	7,031 4 2		
21. Rafts, timber C. ft.		.....	18,744	18,744	2. Tollage per month ...		
22. Do., bamboos „		.....	25,112	25,112	7,917 2 4		
23. Estimated value of rafts Rs.		.....	15,610	15,610			
24. Tollage on boats „		2,657-4-11	4,633-3-6	7,290-8-5	3. Total ...		
25. Compounded tollage on boats Rs.		.....	.....	.....	14,948 6 6		
26. Tollage on rafts „		.....	626-9-11	626-9-11	4. Amount credited in the accounts of the month ...		
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-18	8,392 10 11		
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	1-6-10	5. Balance due at the end of the month ...		
					6,555 11 7		

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 63 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
176	1. Grain ...	526	2	528	32,970	528	33,970
4	2. Cotton ...	2	3	5	1,300	5	1,300
18	3. Oilseeds ...	52	.....	52	4,360	52	4,360
57	4. Salt ...	.....	126	126	11,430	126	11,430
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
1	6. Metal ...	3	.....	3	420	3	420
24	7. Building materials ...	138	4	142	1,040	142	1,040
101	8. Miscellaneous ...	206	74	280	11,530	280	11,530
19	9. Fuel ...	147	.....	147	400	129	360
rafts	10. Timber ...	39,348 c. ft.	.....	39,348 c. ft.	10,500	39,348 c. ft.	10,500
6 "	11. Bamboos ...	400 "	5,150 c. ft.	5,550 "	480	5,550 "	480
400 & 3 rafts.	12. Total ...	{ 1,074 & 39,748 c. ft.	{ 219 & 5,150 c. ft.	{ 1,293 & 44,898 c. ft.	{ 75,430	{ 1,275 & 44,898 c. ft.	{ 75,390
355 & 7 rafts.	13. Total of same month last year ...	{ 857 & 1,828 No.	{ 228 & 5,400 No.	{ 1,085 & 7,228 No.	{ 53,880	{ 967 & 7,228 No.	{ 53,730

	Up.	Down.	Total.		Rs. A. P.
4. Total number of boats plying cargo No.	310	90	400	Total tollage of month— 24 + 25 + 26 ...	1,210 4 3
5. Total number of boats plying passenger No.	1	1	2	Total tollage of same month last year ...	794 15 9
5½. Ditto empty boats "	30	294	324	<i>Memorandum of Tollage.</i>	
6. Total registered tonnage, cargo, private Tons	2,207	520	2,727		
6½. Ditto ditto, Government "	41	.....	41		Rs. A. P.
7. Total registered tonnage, passenger Tons	8	12	20	1. Balance not recovered on the 1st of the month ...	257 6 7
7½. Ditto empty boats "	84	1,383	1,467		
8. Ton-mileage ...	120,736	25,007	1,45,743		
9. Estimated value of cargo Rs.	45,940	18,510	64,450	2. Tollage per month ...	1,210 4 3
10. Number of passengers ...	5	10	15		
11. Rafts, bamboos C. ft.	400	5,150	5,550		
12. Do., timber "	39,348	.....	39,348	3. Total ...	1,467 10 10
13. Estimated value of rafts Rs.	10,550	430	10,980		
14. Tollage on boats "	536-2-0	302-11-0	838-13-0	4. Amount credited in the accounts of the month	1,271 10 4
15. Compounded tollage on boats Rs.	.....	.....	.....
16. Tollage on rafts "	352-2-3	19-5-0	371-7-3		
17. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-96	5. Balance due at the end of the month ...	196 0 6
18. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-3		

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	
78	1. Grain ...	193	11	204	10,692	204	10,692
1	2. Cotton ...	1	.....	1	160	1	160
10	3. Oilseeds ...	.....	22	22	1,680	22	1,680
6	4. Salt ...	.....	27	27	3,640	27	3,640
35	5. Piece-goods ...	.....	37	37	9,800	37	9,800
...	6. Metal ...	.....	.....	.....	.....	.....	.....
2	7. Building materials ...	7½	2	9½	63	.....	.....
17	8. Miscellaneous ...	172½	63	235½	2,062	235½	2,062
43	9. Fuel ...	.....	302	302	814	17	51
16 rafts	10. Timber 347 No.	.....	2,082 c. ft.	2,082 c. ft.	1,041	2,082 c. ft.	1,041
78 „	11. Bamboos ..	.....	43,375 No.	43,375 No.	1,299	43,375 No.	1,299
192 & 94 rafts.	12. Total ...	{ 374	464 2,082 c. ft. 43,375 No.	838 2,082 c. ft. 43,375 No.	{ 31,251 }	543½ 2,082 c. ft. 43,375 No.	{ 30,425 }
244 & 32 rafts.	13. Total of same month last year.	{ 396½	769 & 2,466 c. ft. 9,900 No.	1,165½ 2,466 c. ft. 9,900 No.	{ 40,051 }	565 & 2,466 c. ft. 9,900 No.	{ 37,773 }
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	73	119	192	Total tollage of month— 24 + 25 + 26 ...		
15.	Total number of boats plying passenger ... No.	1	1	2	Total tollage of same month last year ...		
15½.	Ditto empty boats „	108	84	192			
16.	Total registered tonnage, cargo and boat Tons	733	354	1,087			
16½.	Ditto Govt. ditto „	15	574	589	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	2	4	6			
17½.	Ditto empty ditto „	428	231	659			
18.	Ton-mileage ...	10,910	14,208	25,118	1. Balance not recovered on the 1st of the month ...		
19.	Estimated value of cargo Rs.	10,186	18,725	28,911			
20.	Number of passengers ...	195½	271	466½	2. Tollage per month ...		
21.	Rafts, bamboos No.	.....	43,375	43,375			
22.	Do., bullahs C. ft.	.....	2,082	2,082			
23.	Estimated value of rafts Rs.	.....	2,340	2,340	3. Total ...		
24.	Tollage on boats „	113-15-9	183-14-0	297-13-9			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount credited in the accounts of the month ...		
26.	Tollage on rafts „	.....	38-0-6	38-0-6			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-27			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-9	5. Balance due at the end of the month ...		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
14	1. Grain ...	160	...	160	8,966	160	8,966	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	...	...	.....
2	7. Building materials ...	...	9	9	137	.....	.....
3	8. Miscellaneous ...	.....	22½	22½	565	22½	565	
...	9. Fuel ...	...	...	...	...	.....	.....
2 rafts	10. Timber ...	.....	168 c. ft.	168 c. ft.	65	168 c.ft.	65	
3 "	11. Bamboos ...	..	550 No.	550 No.	25	550 No.	25	
59 & 5 rafts.	12. Total ...	{ 160	31½ 168 c. ft. 550 No.	191½ 168 c. ft. 550 No.	{ 9,758	{ 182½ 168 c.ft. 550 No.	{ 9,621	
126 & 6 rafts.	13. Total of same month last year.	{ 150½	499½ & 546 c. ft.	650 & 546 c. ft.	{ 16,400	{ 195½ & 546 c.ft.	{ 16,027	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	54	5	59	Total tollage of month— 24 + 25 + 26 ...			80 12 9
15.	Total number of boats ply- ing passenger No.	.....	1	1	Total tollage of same month last year ...			297 9 0
15½.	Ditto empty ditto "	7	64	71				
16.	Total registered tonnage, cargo and boat Tons	320	45	365				
16½.	Ditto Govt. boat "	.....	18	18	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	.....	1	1				
17½.	Ditto empty ditto "	27	149	176				Rs. A. P.
18.	Ton-mileage ...	2,937	2,244	5,181	1. Balance not recovered on the 1st of the month ...			.....
19.	Estimated value of cargo Rs.	8,966	702	9,668	2. Tollage per month ...			80 12 9
20.	Number of passengers ...	292	168½	460½	3. Total ...			80 12 9
21.	Rafts, bamboos No.	.....	550	550	4. Amount credited in the accounts of the month ...			80 12 9
22.	Do., bullahs C. ft.	.....	168	168	5. Balance due at the end of the month ...			.....
23.	Estimated value of rafts Rs.	.....	90	90				
24.	Tollage on boats "	55-10-0	23-10-6	79-4-6				
25.	Compounded tollage on boats Rs.	.....	.....	.....	
26.	Tollage on rafts "	.....	1-8-3	1-8-3				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·65				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0·11-2				

JAJEPORE CANAL

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	1. Grain ...	.....	5½	5½	269	5½	269	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	.....	13½	13½	3,820	13½	3,820	
1	4. Salt ...	3½	.....	3½	288	3½	288	
7	5. Piece-goods ...	.....	2½	2½	1,400	2½	1,400	
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials ...	.....	.....	.....	.....	.....	.....
2	8. Miscellaneous ...	.....	8	8	1,267	8	1,267	
1	9. Fuel ...	.....	6½	6½	11	6½	11	
15 Rafts	10. Timber, 483 No.	.....	2,898 c. ft.	2,898 c. ft.	387	2,898 c. ft.	387	
10 "	11. Bamboos No.	.....	4,100 No.	4,100 No.	123	4,100 No.	123	
21	12. Total ...	3½	36 2,898 c. ft. 4,100 No.	39½ 2,898 c. ft. 4,100 No.	7,565	39½ & 2,898 c. ft. 4,100 No.	7,565	
25 Rafts.								
15	13. Total of same month last year.	3	49 1,068 c. ft. 5,800 No.	52 1,068 c. ft. 5,800 No.	4,977	52 & 1,068 c. ft. 5,800 No.	4,977	
16 Rafts.								
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		1	20	21	Total tollage of month— 24 + 25 + 26			18 13 5
15. Total number of boats plying passenger No.		.....	2	2				
15½. Ditto empty ditto "		24	4	28	Total tollage of same month last year			12 7 10
16. Total registered tonnage, cargo and boat Tons		7	72	79				
16½. Ditto Govt. boat "		.....	.....	.....	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		.....	8	8				
17½. Ditto empty ditto "		29	8	47				Rs. A. P.
18. Ton-mileage ...		276	528	804	1. Balance not recovered on the 1st of the month			.....
19. Estimated value of cargo Rs.		288	6,767	7,055				
20. Number of passengers ...		.....	.....	.....	2. Tollage per month ..			18 13 5
21. Rafts, bamboos No.		.....	4,100	4,100				
22. Do., bullahs C. ft.		.....	2,898	2,898	3. Total ...			18 13 5
23. Estimated value of rafts Rs.		.....	510	510				
24. Tollage on boats "		2-13-6	7-8-2	10-5-8				
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount credited in the accounts of the month			18 13 5
26. Tollage on rafts "		.....	8-7-9	8-7-9				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-02				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-7-0	5. Balance due at the end of the month ...			.....

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
977	1. Grain ...	5,567	316	5,883	2,97,607	5,883	2,97,607	
1	2. Cotton ...	2	2	4	5,140	4	5,140	
21	3. Oilseeds ...	239	72	311	27,354	311	27,354	
84	4. Salt ...	.....	697	697	74,622	697	74,622	
6	5. Piece-goods ...	...	59	59	1,64,100	59	1,64,100	
34	6. Metal ...	105	86	191	1,64,801	191	1,64,801	
73	7. Building materials ...	685	2	687	2,229	476	1,579	
264	8. Miscellaneous ...	588	541	1,129	4,40,150	1,129	4,40,150	
36	9. Fuel ...	89	500	589	4,274	589	4,274	
68 rafts	10. Timber ...	8,630 c. ft.	683 c. ft.	9,313 c. ft.	6,334	9,313 c. ft.	6,334	
14 "	11. Bamboos ...	1,674 "	.....	1,674 "	101	1,674 "	101	
1,496 & 82 rafts.	12. Total ...	{ 7,275 & 10,304 c. ft.	{ 2,275 & 683 c. ft.	{ 9,550 & 10,987 c. ft.	{ 11,86,712	{ 9,339 & 10,987 c. ft.	{ 11,86,062	
1,839 & 55 rafts.	13. Total of same month last year.	{ 7,860 & 19,951 c. ft.	{ 1,623 & 235 c. ft.	{ 9,483 & 20,186 c. ft.	{ 7,03,650	{ 9,483 & 20,186 c. ft.	{ 7,03,650	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		1,142	354	1,496	Total tollage of month—24 + 25 + 26 ...			11,809 12 3
15. Total number of boats plying passenger No.		446	616	1,062	Total tollage of same month last year ...			14,217 3 9
15½. Ditto empty boats "		522	853	1,375				
16. Total registered tonnage, cargo Tons		16,598	5,177	21,775	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		3,609	3,479	7,088				
17½. Ditto empty "		2,312	4,178	6,490				
18. Ton-mileage ...		495,347	247,357	742,704				
19. Estimated value of cargo Rs.		7,49,820	4,30,457	11,80,277	1. Balance not recovered on the 1st of the month ...			3,741 1 4
20. Number of passengers ...		5,007	3,433	8,440	2. Tollage per month ...			11,809 12 3
21. Rafts, bamboos C. ft.		1,674	.....	1,674				
22. Do., bullahs "		8,630	683	9,313	3. Total ...			15,550 13 7
23. Estimated value of rafts Rs.		4,932	1,503	6,435				
24. Tollage on boats "		7,840-8-3	3,759-9-3	11,600-1-6				
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount paid into treasury during the month ...			8,332 11 0
26. Tollage on rafts "		201-9-3	8-1-6	209 10-9				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-9				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	1-14-6	5. Balance due at the end of the month ...			7,218 2 7

HIDGELLKE TIDAL CANAL.
LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
245	1. Grain ...	200	9	209	9,501	209	9,501	
...	2. Cotton ...	...	...	...	...	...	...
...	3. Oilseeds ...	...	...	...	...	...	...
1	4. Salt ...	...	3	3	320	3	320	
...	5. Piece-goods ...	...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...	...
8	7. Building materials ...	...	15	15	26	15	26	
246	8. Miscellaneous ...	1	9	10	708	10	708	
1	9. Fuel ...	...	4	4	30	4	30	
1 raft	10. Timber ...	...	127 c. ft.	127 c. ft.	134	127 c. ft.	134	
4 rafts	11. Bamboos ...	50	100	150	19	150	19	
501 & 5 rafts.	12. Total ...	{ 201 50	{ 40 & 227 c. ft.	{ 241 & 277 c. ft. }	{ 10,738	{ 241 & 277 c. ft. }	{ 10,738	
1,073 & 8 rafts.	13. Total of same month last year.	{ 2,677	{ 599 & 2,063 c. ft.	{ 3,276 & 2,063 c. ft. }	{ 1,68,410	{ 3,255 & 2,063 c. ft. }	{ 1,65,343	
14. Total number of boats ply- ing cargo	No.	265	236	501	Total tollage of month— 24 + 25 + 26		Rs. A. P. 165 0 6	
15. Total number of boats ply- ing passenger	No.	5	8	13	Total tollage of same month last year		3,041 8 9	
16. Total registered tonnage, cargo	Tons	431	238	669	<i>Memorandum of Tollage.</i>			
17. Total registered tonnage, passenger	Tons	4	6	10				
18. Ton-mileage ...	...	6,082	3,259	9,341				
19. Estimated value of cargo	Rs.	9,351	1,234	10,585				
20. Number of passengers ...	...	24	30	54				
21. Rafts, bamboos	C. ft.	50	100	150				
22. Do., bullahs	"	.....	127	127				
23. Estimated value of rafts	Rs.	6	147	153				
24. Tollage on boats	"	105-11-9	56-6-9	162-2-6				
25. Compounded tollage on boats	Rs.	.....	.....	.....	
26. Tollage on rafts	"	0-2-0	2-12-0	2-14-0				
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-3-3				
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	1-0-7				
					1. Balance not recovered on the 1st of the month	...	695 15 0	
					2. Tollage per month	...	165 0 6	
					3. Total	...	860 15 6	
					4. Amount paid into treasury during the month	...	164 9 6	
					5. Balance due at the end of the month	...	696 6	

SONE CIRCLE
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
16	1. Grain ...	10	129	139	9,159	139	9,159	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	1	16	17	2,300	17	2,300	
1	4. Salt ...	35	.....	35	5,136	35	5,136	
16	5. Piece-goods ...	106	.....	106	22,430	106	22,430	
...	6. Metal ...	7	.....	7	1,920	7	1,920	
24	7. Building materials	28	166	194	1,563	142	1,113	
97	8. Miscellaneous ...	181	473	654	41,434	418	40,180	
...	9. Fuel By rafts	.....	219	219	668	219	668	
4	10. Timber { By boat	17	.....	17	275	17	275	
	" rafts	.....	319	319	3,714	319	3,714	
11	11. Bamboos { By boat	104	.....	104	2,300	104	2,300	
	" rafts	.....	945	945	13,086	945	13,086	
170	12. Total ...	489	2,267	2,756	1,03,985	2,468	1,02,281	
135	13. Total of same month last year ...	465	1,804	2,269	1,12,767	1,929	1,11,532	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats ply- ing cargo No.	69	101	170	Total tollage of month— 24 + 25 + 26 ...	1,820 2 3
15. Total number of boats ply- ing passenger No.	4	4	8		
15½. Ditto empty boats "	60	39	99	Total tollage of same month last year ...	1,032 9 3
16. Total registered tonnage, cargo Tons	887	1,344	2,231		
17. Total registered tonnage, passenger Tons	164	164	328		
17½. Ditto empty boats "	317	112	429		
18. Ton-mileage ...	52,706	1,53,213	2,05,919		
19. Estimated value of cargo Rs.	39,863	46,654	86,517		
20. Number of passengers ...	346½	287	633½		
21. Rafts, bamboos C. ft.	.....	141,737	141,737		
22. Do., bullahs "	.....	40,346	40,346		
23. Estimated value of rafts Rs.	.....	17,468	17,468		
24. Tollage on boats "	375-13-6	556-7-9	932-5-3		
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0		
26. Tollage on rafts "	.....	737-13-0	737-13-0		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	9-6-5		

Memorandum of Tollage.	
1. Balance not recovered on the 1st of the month ...	Rs. A. P. 415 3 1
2. Tollage per month ...	1,820 2 3
3. Total ...	2,235 5 4
4. Amount credited in the accounts of the month ...	1,758 11 6
5. Balance due at the end of the month ...	476 9 10

ARRAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
10	1. Grain ...	2	90	92	6,104	92	6,104
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
4	3. Oilseeds ...	.....	79	79	8,800	79	8,800
18	4. Salt ...	264	.....	264	32,380	264	32,380
1	5. Piece-goods ...	19	.....	19	18,450	19	18,450
...	6. Metal ...	1	.....	1	304	1	304
15	7. Building materials ...	.....	146	146	481	78	317
79	8. Miscellaneous ...	61	752	813	84,705	704	84,542
12	9. Fuel ...	101	64	165	1,953	115	1,432
1	10. Timber ...	.....	11	11	400	.....	.....
Rafts	11. { Bullahs ...	.....	210	210	1,559	210	1,559
	Bamboos ...	.....	50	50	444	50	444
	Firewood ...	.....	314	314	826	314	826
140	12. Total ...	448	1,716	2,164	1,56,406	1,926	1,55,158
105	13. Total of same month last year.	198	1,900	2,098	79,335	1,930	78,280

	Up.	Down.	Total.		Rs.
14. Total number of boats plying cargo No.	35	105	140	Total tollage of month— 24 + 25 + 26 ...	1,317
15. Total number of boats plying passenger No.	1	3	4	Total tollage of same month last year ...	896
15½. Total number of empty boats No.	86	5	91	<i>Memorandum of Tollage.</i>	
16. Total registered tonnage, cargo Tons	702	1,833	2,535		
17. Total registered tonnage, passenger Tons	62	58	120		
17½. Total registered tonnage, empty Tons	302	18	320		
18. Ton-mileage ...	47,908	85,862	133,770		
19. Estimated value of cargo Rs.	66,613	86,964	1,53,577	1. Balance not recovered on the 1st of the month ...	135
20. Number of passengers ...	850	747	1,597		
21. Rafts, bamboos C.ft.	.....	7,555	7,555	2. Tollage per month ...	1,317
22. Do., bullahs "	.....	15,800	15,800		
22½. Do., firewood "	.....	23,560	23,560		
23. Estimated value of rafts Rs.	.....	2,829	2,829	3. Total ...	1,452
24. Tollage on boats "	248-15-9	625-3-0	874-2-9		
25. Compounded tollage on boats Rs.	182-14-3	182-14-6	365-12-9	4. Amount credited in the accounts of the month ...	1,345
26. Tollage on rafts "	.....	77-2-9	77-2-9		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-78		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-7	5. Balance due at the end of the month ...	107

BUXAR CANAL SYSTEM.
LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
5	1. Grain ...	.....	55	55	3,124	55	3,124	
...	2. Cotton ...	.....	.....	.....	...	.....	.....
4	3. Oilseeds ...	.....	75	75	8,800	75	8,800	
...	4. Salt ...	1	.....	1	80	1	80	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
8	7. Building materials ...	16	100	116	1,641	75	766	
46	8. Miscellaneous ...	12	531	543	41,165	543	41,165	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
Rafts {	10. Timber ...	.....	256	256	1,884	256	1,884	
	11. Bamboos ...	.....	184	184	2,341	184	2,341	
63	12. Total ...	29	1,201	1,230	59,035	1,189	58,160	
16	13. Total of same month last year.	31	961	992	28,621	992	28,621	
		Up.	Down.	Total.				
14.	Total number of boats plying cargo No.	3	60	63				Rs. A. P.
15.	Total number of boats plying passenger No.	8	8	16	Total tollage of month— 24 + 25 + 26 ...			734 15 6
15½.	Ditto empty boats "	67	7	74				
16.	Total registered tonnage, cargo Tons	35	1,435	1,470	Total tollage of same month last year ...			503 12 9
17.	Total registered tonnage, passenger Tons	216	216	432				
17½.	Ditto empty "	251	27	278				
18.	Ton-mileage ...	8,552	31,908	40,460	Memorandum of Tollage.			
19.	Estimated value of cargo Rs.	2,373	52,437	54,810				Rs. A. P.
20.	Number of passengers ...	502	443	945	1. Balance not recovered on the 1st of the month ...			36 14 9
21.	Rafts, bamboos C. ft.	.....	27,617	27,617				
22.	Do., bullahs "	.....	19,243	19,243	2. Tollage per month ...			734 15 6
23.	Estimated value of rafts Rs.	.....	4,225	4,225				
24.	Tollage on boats "	56-10-0	371-2-0	427-12-0	3. Total ...			771 14 3
25.	Compounded tollage on boats Rs.	72-14-10	72-14-11	145-13-9				
26.	Tollage on rafts "	.....	161-5-9	161-5-9	4. Amount credited in the accounts of the month ...			764 4 6
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-6	5. Balance due at the end of the month ...			7 9 9

**ABSTRACT FOR THE MONTH OF FEBRUARY 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1889-90.			TRAFFIC, 1888-89.			REMARKS.
	During the month.		To end of the month.	During the month.		To end of the month.	
<i>Orissa Circle.</i>	Rs.	A.	P.	Rs.	A.	P.	
Taldunda Canal System ...	310	0	0	3,365	7	3	370 11 0 2,690 11 0
Kendrapara Canal System ...	7,917	2	4	52,418	6	7	5,775 1 0 45,597 12 6
High Level, Range I ...	1,210	4	3	7,343	7	8	794 15 9 5,709 9 9
Ditto, " II ...	335	14	3	2,748	9	3	525 15 0 2,562 9 6
Ditto, " III ...	80	12	9	1,110	3	6	297 9 0 1,194 5 6
Jajepore Canal ...	18	13	5	116	5	0	12 7 10 86 12 9
Total Orissa Circle ...	9,872	15	0	67,102	7	3	7,776 11 7 57,751 13 0
<i>South-Western Circle.</i>							
Midnapore Canal ...	11,809	12	3	1,29,016	2	3	14,217 3 9 1,31,691 12 6
Hidgellee Tidal Canal ...	165	0	6	38,503	13	0	3,041 8 9 50,526 12 9
Total South-Western Circle	11,974	12	9	1,67,519	15	3	17,258 12 6 1,82,218 9 3
<i>Sone Circle.</i>							
Patna Canal System ...	1,820	2	3	22,046	14	9	1,032 9 3 21,949 4 9
Arrah ditto ...	1,317	2	3	16,625	14	11	896 7 0 17,134 2 2
Buxar ditto ...	734	15	6	6,572	7	2	500 12 9 8,112 2 6
Total Sone Circle ...	3,872	4	0	45,245	4	10	2,429 13 0 47,195 9 5
GRAND TOTAL ...	25,719	15	9	2,79,867	11	4	27,465 5 1 2,87,165 15 8

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1889-90.						TRAFFIC, 1888-89.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A.
High Level ...	1,156	1,157	1,026 8 6	7,936	7,994	9,317 4 10	955	3,155	1,380 3 4	5,304	7,179	6,516 3
Total Orissa Circle ...	1,156	1,157	1,026 8 6	7,936	7,994	9,317 4 10	955	3,155	1,380 3 4	5,304	7,179	6,516 3

TOTAL NAVIGATION RECEIPTS.

CANAL.	EARNINGS, 1889-90.			EARNINGS, 1888-89.			REMARKS.
	During the month.		To end of the month.	During the month.		To end of the month.	
	Rs.	A.	P.	Rs.	A.	P.	
Orissa Canals ...	10,899	7	6	76,419	12	1	9,156 14 11 64,267 0 8
Midnapore Canal ...	11,809	12	3	1,29,016	2	3	14,217 3 9 1,31,691 12 6
Hidgellee Tidal Canal ...	165	0	6	38,503	13	0	3,041 8 9 50,526 12 9
Sone Canals ...	3,872	4	0	45,245	4	10	2,429 13 0 47,195 9 5
Total ...	26,746	8	3	2,59,185	0	2	28,845 8 5 2,93,681 3 4

CALCUTTA,
The 20th May 1890.

G. A. G. SHAWB,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, —BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Jellinghee, and Brahmapootra for the month of February 1890.

RIVER GANGES.												RIVER JELLINGHEE.	RIVER BRAHMAPOOTRA.								
MIRZAPUR.		BENARES.		BUZAR.		DINAPOUR.		MONGHYR.		SAHEYGUNGE.		RAMPUR BANGLA.		GAULANDA.		BERHAMPORE.		SARUNGUNGE.		GOWHATY.	
Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
225	205.47	0.71	197.61	2.67	171.77	7.10	141.33	1.08	109.77	Below zero.	Below zero.	0.98	43.98	1.67	10.61	2.60	35.24	2.85	7.13	Below zero.	Below zero.
217	205.39	0.63	197.43	2.67	171.72	7.10	141.33	1.13	109.72	1.08	67.90	0.96	43.96	1.58	10.33	2.43	36.16	2.94	7.24	3.00	145.76
217	205.39	0.64	197.44	2.67	171.73	7.10	141.33	1.17	109.69	1.08	67.92	0.94	43.94	1.60	10.44	2.38	36.16	3.17	7.47	3.00	145.76
206	205.39	0.50	197.30	2.58	171.63	7.05	141.28	1.19	109.63	1.07	67.83	0.92	43.92	1.60	10.44	2.38	36.12	3.08	7.38	3.00	145.76
208	205.30	0.46	197.26	2.58	171.63	7.05	141.28	1.21	109.64	1.17	69.83	0.90	43.90	1.60	10.44	2.39	36.07	3.09	7.39	3.10	145.76
200	205.22	0.42	197.22	2.58	171.63	7.00	141.23	1.25	109.69	1.25	69.75	0.88	43.88	1.58	10.32	2.59	35.93	3.07	7.37	3.20	145.56
208	205.20	0.38	197.18	2.58	171.63	7.00	141.23	1.29	109.63	1.25	69.75	0.86	43.86	1.67	10.61	2.76	35.95	3.27	7.57	3.30	145.36
208	205.20	0.35	197.15	2.50	171.65	7.00	141.23	1.33	109.57	1.33	69.67	0.83	43.83	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.32	197.12	2.50	171.65	7.00	141.23	1.38	109.57	1.33	69.67	0.81	43.81	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.29	197.09	2.50	171.65	7.00	141.23	1.42	109.57	1.42	69.58	0.78	43.78	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.25	197.05	2.50	171.65	6.95	141.08	1.46	109.57	1.46	69.58	0.77	43.77	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.21	197.01	2.43	171.47	6.90	141.08	1.50	109.57	1.50	69.50	0.75	43.75	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.17	196.97	2.43	171.47	6.75	140.98	1.54	109.57	1.54	69.50	0.73	43.73	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.13	196.93	2.43	171.47	6.70	140.93	1.58	109.57	1.58	69.43	0.71	43.71	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.09	196.89	2.43	171.47	6.65	140.88	1.62	109.57	1.62	69.35	0.69	43.69	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.05	196.85	2.43	171.47	6.60	140.83	1.66	109.57	1.66	69.27	0.67	43.67	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.01	196.81	2.43	171.47	6.55	140.78	1.70	109.57	1.70	69.19	0.65	43.65	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.50	140.73	1.74	109.57	1.74	69.11	0.63	43.63	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.45	140.68	1.78	109.57	1.78	69.03	0.61	43.61	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.40	140.63	1.82	109.57	1.82	68.95	0.59	43.59	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.35	140.58	1.86	109.57	1.86	68.87	0.57	43.57	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.30	140.53	1.90	109.57	1.90	68.79	0.55	43.55	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.25	140.48	1.94	109.57	1.94	68.71	0.53	43.53	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.20	140.43	1.98	109.57	1.98	68.63	0.51	43.51	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.15	140.38	2.02	109.57	2.02	68.55	0.49	43.49	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.10	140.33	2.06	109.57	2.06	68.47	0.47	43.47	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.05	140.28	2.10	109.57	2.10	68.39	0.45	43.45	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	6.00	140.23	2.14	109.57	2.14	68.31	0.43	43.43	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.95	140.18	2.18	109.57	2.18	68.23	0.41	43.41	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.90	140.13	2.22	109.57	2.22	68.15	0.39	43.39	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.85	140.08	2.26	109.57	2.26	68.07	0.37	43.37	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.80	140.03	2.30	109.57	2.30	67.99	0.35	43.35	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.75	140.03	2.34	109.57	2.34	67.91	0.33	43.33	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.70	140.03	2.38	109.57	2.38	67.83	0.31	43.31	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.65	140.03	2.42	109.57	2.42	67.75	0.29	43.29	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.60	140.03	2.46	109.57	2.46	67.67	0.27	43.27	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.55	140.03	2.50	109.57	2.50	67.59	0.25	43.25	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.50	140.03	2.54	109.57	2.54	67.51	0.23	43.23	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.45	140.03	2.58	109.57	2.58	67.43	0.21	43.21	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.40	140.03	2.62	109.57	2.62	67.35	0.19	43.19	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.35	140.03	2.66	109.57	2.66	67.27	0.17	43.17	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.30	140.03	2.70	109.57	2.70	67.19	0.15	43.15	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.25	140.03	2.74	109.57	2.74	67.11	0.13	43.13	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.20	140.03	2.78	109.57	2.78	67.03	0.11	43.11	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.15	140.03	2.82	109.57	2.82	66.95	0.09	43.09	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.10	140.03	2.86	109.57	2.86	66.87	0.07	43.07	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.05	140.03	2.90	109.57	2.90	66.79	0.05	43.05	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	5.00	140.03	2.94	109.57	2.94	66.71	0.03	43.03	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.95	140.03	2.98	109.57	2.98	66.63	0.01	43.01	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.90	140.03	3.02	109.57	3.02	66.55	0.00	43.00	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.85	140.03	3.06	109.57	3.06	66.47	0.00	43.00	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.80	140.03	3.10	109.57	3.10	66.39	0.00	43.00	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.75	140.03	3.14	109.57	3.14	66.31	0.00	43.00	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.70	140.03	3.18	109.57	3.18	66.23	0.00	43.00	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36
208	205.20	0.00	196.80	2.43	171.47	4.65	140.03	3.22	109.57	3.22	66.15	0.00	43.00	1.67	10.61	2.81	35.95	3.32	7.73	3.40	145.36

CALCUTTA,
The 19th May 1890.G. A. G. SHAW, B.
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of February 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.						Rainfall, 1889-90.		REMARKS.			
								Five years, all crops.	Five years, kharif.	Annual leases.				Hot-weather.	Total.		GRAND TOTAL.	Up to end of month.	During end of month.
										Kharif.	Rabi.	Sugarcane.	Bhadol.						
ORISSA.	Cuttack.	Talunda, 1st reach	1,342	259	23	10,443	10,443	10,483	384	12	12	12	12	72.22	67.6	79.23	Whole month discharging, 3 Days discharging.		
		Ditto, 2nd "	506	100		27,230	27,230	27,748	222	14	14	14	14	65.45	0.17	48.69			
		Machgung	776	10	10	27,748	27,748	51,427	3,983	36	36	36	36	75.90	0.17	48.69			
		Kendrapara	1,007	258.90	109.40	40,324	40,324	51,427	3,983	36	36	36	36	75.90	0.17	48.69			
		Gadai	378.82	13.46	13.46	1,576	1,576	2,390	215	3	3	3	3	75.90	0.17	48.69			
		Do. extension	688	13.50	13.50	2,346	2,346	2,390	215	3	3	3	3	75.90	0.17	48.69			
		Patamond	588	13.50	13.50	2,346	2,346	2,390	215	3	3	3	3	75.90	0.17	48.69			
		High Level, Range I	608	13.50	13.50	2,346	2,346	2,390	215	3	3	3	3	75.90	0.17	48.69			
		Ditto, Range II	727.16	13.50	13.50	2,346	2,346	2,390	215	3	3	3	3	75.90	0.17	48.69			
		Ditto, Range III	727.16	13.50	13.50	2,346	2,346	2,390	215	3	3	3	3	75.90	0.17	48.69			
		Total			155,303	140,360	167,230	5,805	150	150	150	150	173,404	6,174	173,404				
		Total of the corresponding period of last year					136,167	2,925	178	178	178	178	139,394	3,227	139,394				
SOUTH-WEST. IND.	Midnapore.	Midnapore	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703							67.91	4.86	65.00			
		Total				206,160	234,060							67.91	4.86	65.00			
		Total of the corresponding period of last year					186,901							67.91	4.86	65.00			
SOUTH.	Shahabad.	Shahabad	1,411	43		61,782	49,708	61,288	11					67.91	4.86	65.00	Decrease in annual leases is due to transfer to 5 years' leases.		
		Panchkoteah	832	6		3,403	4,612	4,338	440					67.91	4.86	65.00			
		Tidal reaches, Range I-II				327	530	518						67.91	4.86	65.00			
		Total				65,582	54,777	65,934	451					67.91	4.86	65.00			
		Total of the corresponding period of last year						60,805	1,349	44				67.91	4.86	65.00			
		Western Main	4,343	1,193	46	20,546	27,529							67.91	4.86	65.00			
		Buxar	1,256	259	160	76,161	90,106							67.91	4.86	65.00			
		Arrah	2,000	753	659	143,509	169,454							67.91	4.86	65.00			
		Eastern main	1,466	433	310	61,134	39,703							67.91	4.86	65.00			
		Patna				61,134	39,703												

G. A. G. SHAW, E.
Under-Secy. to the Govt. of Bengal.

CALCUTTA,
The 19th May 1890.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
400	1. Grain ...	881	3,255	4,136	2,31,806	4,136	2,31,806	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
117	3. Oilseeds* ...	.....	1,702	1,702	2,03,107	1,702	2,03,107	
156	4. Salt ...	373	.....	373	34,068	373	34,068	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
14	6. Metal† ...	65	7	72	55,695	72	55,695	
23	7. Building materials ...	280	16	296	7,212	296	7,212	
537	8. Miscellaneous ...	2,024.35	3,045.60	5,069.95	9,54,947	5,069.95	9,54,947	
52	9. Fuel ...	490	126	616	8,162	616	8,162	
Rafts 67	10. Timber ...	155 c. ft.	20,422 c. ft.	20,577 c. ft.	61,730	20,577 c. ft.	61,730	
" 6	11. Bamboos ...	200 "	2,100 "	2,300 "	142	2,300 "	142	
1,299 & 73 rafts.	12. Total ...	{ 4,113.35 & 355 c. ft.	{ 8,151.60 & 22,522 c. ft.	{ 12,264.95 & 22,877 c. ft.	{ 15,56,869	{ 12,264.95 & 22,877 c. ft.	{ 15,56,869	* 10 mounds passed up on Matlabhanga river. † 4 mounds passed down on Matlabhanga river.
1,499 & 12 rafts.	13. Total of same month last year	{ 5,270 & 1,657 c. ft.	{ 9,429 & 1,260 c. ft.	{ 14,699 & 2,917 c. ft.	{ 15,01,617	{ 14,699 & 2,917 c. ft.	{ 15,01,617	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		600	699	1,299	Total tollage of month—24+25+26 ...			7,869 9 0
14a. Empty boats and steamers, &c. No.		728	138	866	Total tollage of same month last year ...			7,957 6 9
15. Total number of boats plying passenger No.		800	508	1,308	Memorandum of Tollage.			
15a. Ditto empty boats "		3	3	6				
16. Total registered tonnage, cargo Tons		20,410.5	17,202	37,612.5				
17. Total registered tonnage, passenger Tons		153	128	281				
18. Ton-mileage		.....	.....	.....	
19. Estimated value of cargo Rs.		5,72,629	9,22,368	14,94,997				
20. Number of passengers No.		1,003	1,892	2,895				
21. Rafts, bamboos C. ft.		200	2,100	2,300				
22. Do., bullahs "		155	20,422	20,577				
23. Estimated value of rafts Rs.		481	61,391	61,872				
24. Tollage on boats "		3,401-9-6	4,101-2-0	7,502-11-6				
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts "		2-13-0	364-0-6	366-13-6				
27. Total tollage on boats per ton-mile*		.....	.....	.....	
28. Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	1-9-7				
					1. Balance not recovered on the 1st of the month ...			Rs. A. P. 345 0 6
					2. Tollage per month ...			7,869 9 0
					3. Total ...			8,214 9 6
					4. Amount paid into treasury during the month ...			8,019 9 6
					5. Balance due at the end of the month ...			195 0 0

* Boats in these rivers do not pay per mile.

Abstract for the month of March 1890 as compared with the corresponding month of the previous year.

	1889-90.		1888-89.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	7,869 9 0	1,85,982 5 3	7,957 6 9	1,91,750 13 11

CALCUTTA,
The 19th May 1890.G. A. G. SHAWB,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
421	1. Grain ...	4,179	151	4,330	1,56,274	4,330	1,56,274	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	3	.....	3	360	3	360	
45	4. Salt ...	1	377	378	42,103	378	42,103	
6	5. Piece-goods ...	.....	25	25	4,900	25	4,900	
4	6. Metal ...	1	9	10	2,100	2	100	
57	7. Building materials ...	161	137	298	7,875	86	586	
881	8. Miscellaneous ...	150	468	618	60,746	562	59,850	
28	9. Fuel ...	44	161	205	1,290	205	1,290	
16 rafts	10. Timber ...	1,028 c. ft.	51 c. ft.	1,079 c. ft.	720	708 c. ft.	485	
10 "	11. Bamboos ...	630 "	762 "	1,392 "	159	1,392 "	159	
1,445 & 26 rafts.	12. Total ...	{ 4,539 & 1,658 c. ft.	{ 1,328 & 813 c. ft.	{ 5,867 & 2,471 c. ft.	{ 2,76,527	{ 5,591 & 2,100 c. ft.	{ 2,66,107	
1,083 & 26 rafts.	13. Total of same month last year.	{ 3,265 & 1,183 c. ft.	{ 1,568 & 2,803 c. ft.	{ 4,833 & 3,986 c. ft.	{ 2,59,204	{ 4,788 & 3,986 c. ft.	{ 2,58,543	
14. Total number of boats plying cargo	No.	673	772	1,445	Total tollage of month—		Rs. A. P.	
15. Total number of boats plying passenger	No.	67	72	139	24+25+26 ...		7,972 9	
16. Total registered tonnage, cargo	Tons	8,653	6,044	14,697	Total tollage of same month last year ...		7,266 6	
17. Total registered tonnage, passenger	Tons	982	859	1,841	Memorandum of Tollage.			
18. Ton-mileage	...	268,967	182,811	451,778				
19. Estimated value of cargo	Rs.	166,982	108,666	2,75,648				
20. Number of passengers	No.	2,444	2,339	4,783				
21. Rafts, bamboos	C. ft.	630	762	1,392	1. Balance not recovered on the 1st of the month	5,854 6		
22. Do., bullahs	"	1,028	51	1,079	2. Tollage per month ...	7,972 9		
23. Estimated value of rafts	Rs.	738	141	879	3. Total ...	13,826 15		
24. Tollage on boats	"	4,708-15-0	3,222-3-6	7,931-2-6	4. Amount paid into treasury during the month	8,371 14		
25. Compounded tollage on boats	Rs.	.....	.....	.....	5. Balance due at the end of the month	5,455 1		
26. Tollage on rafts	"	37-8-0	3-15-0	41-7-0				
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-3-3				
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	1-10-9				

Abstract for the month of March 1890 as compared with the corresponding month of the previous year.

	1889-90.		1888-89.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	7,972 9 6	63,231 6 6	7,266 6 3	67,372 11 6

CALCUTTA,
The 19th May 1890.G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
919	1. Grain ...	19,476	21	19,497	21,76,078	19,497	21,76,078	* For details, see next page.
5	2. Cotton ...	95	.....	95	48,150	95	48,150	
14	3. Oilseeds ...	109	41	150	24,750	150	24,750	
404	4. Salt ...	408	7,091	7,499	7,34,895	7,499	7,34,895	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
41	6. Metal ...	566	13	579	78,400	579	78,400	
265	7. Building materials ...	7,401	238	7,639	1,30,755	7,639	1,30,755	
1,857	8. Miscellaneous* ...	12,654	1,714	14,368	17,31,533	14,368	17,31,533	
534	9. Fuel ...	11,870	1,391	13,261	1,00,103	13,261	1,00,103	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
4,039	12. Total ...	52,579	10,509	63,088	50,24,664	63,088	50,24,664	* For details, see next page.
3,860 & 5 rafts.	13. Total of same month last year	53,767 & 1,200 c. ft.	8,308	62,075 & 1,200 c. ft.	45,77,252	62,075 & 1,200 c. ft.	45,77,252	
14. Total number of boats plying cargo	No.	3,436	603	4,039	Total tollage of month— 24+25+26		Rs. A. P. 37,335 12 6	
14a. Ditto empty boats	"	1,902	841	2,743				
15. Total number of boats plying passenger	No.	500	3	503	Total tollage of same month last year		38,645 1 3	
16. Total registered tonnage, cargo	Tons	165,311	27,767	193,078	Memorandum of Tollage.			
17. Total registered tonnage, passenger	Tons	1,042	16	1,058				
18. Ton-mileage	...	14,71,085	277,670	1,748,755	Rs. A. P.			
19. Estimated value of cargo	Rs.	40,90,507	9,34,157	50,24,664	1. Balance not recovered on the 1st of the month			
20. Number of passengers	No.	2,239	12	2,251	... 1,604 6 9			
21. Rafts, bamboos	C. ft.	.....	.....	.....	2. Tollage per month			
22. Do., bullahs	"	.....	.....	.....	... 37,335 12 6			
23. Estimated value of rafts	Rs.	.....	.....	.....	3. Total			
24. Tollage on boats	"	30,528-10-6	6,807-2-0	37,335-12-6	... 38,940 3 3			
25. Compounded tollage on boats	Rs.	.....	.....	.....	4. Amount paid into treasury during the month			
26. Tollage on rafts	"	.....	.....	.....	... 38,406 10 6			
27. Total tollage on boats per ton-mile	Rs.	.....	.....	C-0-4-09				
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	.....	5. Balance due at the end of the month			
					... 533 8 9			

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
274	(a) Jute ...	7,221	.....	7,221	9,09,855	7,221	9,09,855	
82	(b) Jaggery ...	692	103	795	1,11,250	795	1,11,250	
10	(c) Sugar ...	52	.....	52	13,775	52	13,775	
2	(d) Tobacco ...	.....	4	4	875	4	875	
567	(e) Fish ...	168	1	169	47,277	169	47,277	
3	(f) Hides ...	2	.....	2	380	2	380	
70	(g) Poultry ...	16	.....	16	13,839	16	13,839	
168	(h) Hay and straw ...	1,489	.....	1,489	31,278	1,489	31,278	
75	(j) Oil ...	11	1,128	1,139	1,59,425	1,139	1,59,425	
49	(k) Earthenware ...	63	1	64	900	64	900	
557	(m) Other miscellane- neous ...	2,940	477	3,417	4,42,679	3,417	4,42,679	
1,857	Total Miscellaneous...	12,654	1,714	14,368	17,31,533	14,368	17,31,533	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.		
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
3,697	1. Grain ...	12,379	.....	12,379	12,69,545	12,379	12,69,545	* For details, see next page.
3	2. Cotton ...	22	.....	22	11,250	22	11,250	
3	3. Oilseeds ...	25	.....	25	3,500	25	3,500	
75	4. Salt ...	514	412	926	90,737	926	90,737	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
7	6. Metal ...	128	.....	128	15,900	128	15,900	
322	7. Building materials	2,645	25	2,670	10,445	2,670	10,445	
1,175	8. Miscellaneous* ...	4,089	63	4,152	3,53,276	4,152	3,53,276	
187	9. Fuel ...	2,629	141	2,770	21,274	2,770	21,274	
3 rafts.	10. Timber ...	1,528 c. ft.	.....	1,528 c. ft.	3,820	1,528 c. ft.	3,820	
1 "	11. Bamboos ...	633 "	.....	633 "	105	633 "	105	
5,469 & 14 rafts.	12. Total ...	{ 22,431 & 2,161 c. ft.	641	{ 23,072 & 2,161 c. ft. }	17,79,852	{ 23,072 & 2,161 c. ft. }	17,79,852	* For details, see next page.
4,251 & 12 rafts.	13. Total of same month last year ...	{ 21,330 & 1,577 c. ft.	473	{ 21,803 & 1,577 c. ft. }	12,54,806	{ 21,803 & 1,577 c. ft. }	12,54,806	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo ... No.	5,396	73	5,469	Total tollage of month— 24+25+26 ...			11,337 1 3
14a.	Empty ...	924	164	1,088	Total tollage of same month last year ...			10,929 0 6
15.	Total number of boats plying passenger ... No.	387	9	396	Memorandum of Tollage.			
16.	Total registered tonnage, cargo ... Tons	70,685	2,358	73,043				
17.	Total registered tonnage, passenger ... Tons	876	24	900				Rs. A. P.
18.	Ton-mileage ...	5,97,836	37,728	6,35,564	1. Balance not recovered on the 1st of the month ...			222 11 6
19.	Estimated value of cargo Rs.	17,29,299	46,628	17,75,927	2. Tollage per month ...			11,337 1 3
20.	Number of passengers No.	2,689	49	2,738	3. Total ...			11,559 12 9
21.	Rafts, bamboos C. ft.	633	.....	633	4. Amount paid into treasury during the month ...			11,377 9 9
22.	Do., bullahs "	1,528	.....	1,528	5. Balance due at the end of the month ...			182 3 0
23.	Estimated value of rafts Rs.	3,925	.....	3,925				
24.	Tollage on boats "	10,725-1-3	583-0-0	11,308-1-3				
25.	Compounded tollage on boats ... Rs.	.....	.....	.....	
26.	Tollage on rafts "	29-0-0	.....	29-0-0				
27.	Total tollage on boats per ton-mile Pie	.....	.....	0-0-3-41				
28.	Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	1-5-5				

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
6	(a) Jute ...	77	.....	77	9,675	77	9,675	
99	(b) Jaggery ...	721	3	724	1,01,375	724	1,01,375	
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....
13	(d) Tobacco ...	128	.....	128	25,095	128	25,095	
183	(e) Fish ...	38	.....	38	10,680	38	10,680	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
4	(g) Poultry ...	1	.....	1	300	1	300	
426	(h) Hay and straw...	1,281	.....	1,281	14,694	1,281	14,694	
35	(j) Oil ...	306	.....	306	42,875	306	42,875	
128	(k) Earthenware ...	155	14	169	2,362	169	2,362	
281	(m) Other miscellane- ous.	1,382	46	1,428	1,46,220	1,428	1,46,220	
1,175	Total Miscellaneous...	4,089	63	4,152	3,53,276	4,152	3,53,276	

ABSTRACT FOR THE MONTH OF MARCH 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	TRAFFIC, 1889-90.				TRAFFIC, 1888-89.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	37,335	12 6	3,76,607	3 6	38,645	1 3	4,32,287	12 3
Tolly's Nullah ...	11,337	1 3	1,05,672	3 9	10,929	0 6	1,33,203	4 9
Total ...	48,672	13 9	4,82,279	7 3	49,574	1 9	5,65,491	1 0

Calcutta,
The 20th May 1890.

G. A. G. SHAW, E.
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 17th May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 17TH MAY 1890.			WEEK ENDING SATURDAY, THE 16TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	137	37,925	538	247	74,795	1,161
Jute ...	18	15,550	268	14	7,950	105
Firewood ...	89	54,175	809	33	14,725	222
Other articles ...	550	1,64,616	2,313	682	2,24,610	2,991
Total ...	794	2,72,266	3,928	976	3,22,080	4,479

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of February 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	4,823	16	5,038	40	4,838	5,084	.....	246
Cotton twist and yarn—								
1.—European	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian	.....	.....	.....	.....	.....	.....	.....	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	302	33	185	.....	335	185	150	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian—								
a.—In bales and bundles	.....	.....	.....	.....	.....	.....	.....	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
Grains—								
2.—Rice	21	43	6	46	64	62	12	.....
5.—Others	60	127	29	469	187	498	.....	311
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Skins of sheep, &c.—	.....	57	.....	28	67	28	29	.....
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
Jute—								
1.—Raw—								
b.—Unscrowed	.....	100	.....	78	100	78	22	.....
2.—Gunny-bags and cloth	10	.....	12	.....	10	12	.....	2
Metals—								
1.—Copper, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
2.—Brass, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
3.—Brass and copper, wrought	.....	.....	.....	.....	.....	.....	.....	.....
4.—Iron	93	21	65	33	114	98	16	.....
5.—Tin	.....	.....	.....	.....	.....	.....	.....	.....
6.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oils—								
2.—Kerosine	122	.....	53	.....	122	53	69	.....
7.—Others	150	.....	42	.....	150	42	108	.....
Oilseeds—								
1.—Linseed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Rape and mustard	.....	.....	.....	.....	.....	.....	.....	.....
3.—Til or gingelly	.....	.....	.....	.....	.....	.....	.....	.....
4.—Niger	.....	.....	.....	.....	.....	.....	.....	.....
5.—Castor	.....	.....	.....	.....	.....	.....	.....	.....
6.—Poppy	.....	.....	.....	.....	.....	.....	.....	.....
7.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Provisions—								
2.—Betel-nuts	2	1,067	.....	69	1,069	69	940	.....
5.—Others	168	100	162	174	336	336	22	.....
Railway plant and rolling-stock	79	30	31	11	109	42	67	.....
Salt	198	.....	127	.....	198	127	68	.....
Sugar—								
1.—Drained	.....	.....	.....	.....	.....	.....	.....	.....
2.—Undrained	92	354	28	1,185	446	1,213	.....	767
Tobacco	19	9	10	12	28	22	6	.....
All other articles of merchandise—								
1.—Unmanufactured	.....	.....	.....	.....	.....	.....	.....	.....
2.—Manufactured	418	173	323	167	591	490	101	.....
Total	6,730	2,221	6,143	2,817	8,951	8,962	1,610	1,621

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of February 1890.

	Tons.
INCREASES.	
Cotton manufactures	150
Due to increasing demand for up-country consumption.	.....
Betel-nuts	940
Almost exclusively from the B. C. Flotilla Service	.....
DECREASES.	
Coal	246
Ordinary fluctuations, the traffic being principally for Railway and Flotilla consumption.	.....
Oil-seeds	295
Falling off in despatches from Chandpora, Bongong, Jadabpur, Nabhoran, and Jhikargacha.	.....
Sugar	767
This decrease was in despatches from Jhikargacha said to be due to limited production.	.....

F. P. QUINLAN,

Examiner of Accounts and Joint Auditor.

CALCUTTA, the 15th May 1890.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the five weeks ended 29th March 1890,
as compared with the same period of 1889.

STAPLES.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING	No.		No.		No.		No.	
Horses, ponies, and mules	125	2,859	99	1,798	26	1,061	24	...
Cattle	67	743	91	462	...	281	...	...
Sheep and goats	4,245	3,578	4,235	3,804	10	...	...	236
Other kinds	21	102	33	123	...	...	14	21
BORR	...	...	...	...	...	...	...	...
Gums and rattans	2,714	1,951	2,674	1,839	40	115	...	...
Cocutcheon (Indian-rubber)	143	150	91	133	52	17	...	...
Chinese and Japanese ware	47	10	53	15	...	...	6	5
Coal and coke, up	34	8	43	17	...	...	9	...
Ditto, down	13,32,611	3,38,912	11,12,701	3,49,082	2,19,910	...	23,900	16,170
Cotton, raw	37,98,304	5,03,906	38,24,204	5,20,346	...	...	...	16,440
COTTON, MANU-FACTURED.	1,94,494	1,76,732	1,87,660	1,34,636	6,833	42,116	...	...
Twist and yarn (European)	9,950	12,694	10,589	13,744	...	...	639	1,030
Ditto (Indian)	12,917	7,537	13,219	7,969	...	...	302	423
Piece-goods (European)	1,88,973	2,20,834	1,75,712	2,26,123	13,261	...	...	5,269
Ditto (Indian)	29,516	14,584	29,051	14,839	465	...	...	255
Drugs and MEDICINES.	...	...	...	...	...	...	...	...
Asafetida	204	289	433	247	71	39	...	...
Other sorts, not intoxicating	2,515	2,533	2,468	2,512	63	41	...	...
Intoxicating drugs (other than opium, i.e., arsenic, bhanga, ganja, and charas, &c.)	1,671	687	1,098	304	573	...	...	47
DYEING MATERIALS.	...	...	...	...	...	...	...	...
Indigo	783	1,067	767	1,034	16	63	...	...
Madder or manjit	43	10	56	12	...	...	11	2
Safflower	5,579	4,476	1,477	1,841	2,102	2,615	...	...
Turneric	16,289	10,615	11,845	8,495	4,644	6,120	...	...
Other kinds	16,218	8,331	11,569	7,438	...	...	1,721	1,607
Earthenware and porcelain	1,131	2,482	1,097	2,381	34	101	...	...
Jute, raw	27,112	7,895	20,911	8,054	6,021	4,841	...	...
FIBROUS PRODUCTS.	1,01,206	48,099	94,169	44,917	7,037	3,173	...	...
Do., manufactured (gunny bags and cloths)	20,573	6,493	24,120	8,335	...	...	3,547	1,842
Other fibres, raw	2,929	771	1,423	381	1,506	399	...	...
Ditto, manufactured	3,703	2,667	6,269	3,771	...	...	2,566	1,104
FRUITS & NUTS	...	...	...	...	...	...	...	...
All other kinds	44,367	27,300	38,982	25,259	6,225	2,041	...	...
Wheat	3,02,098	74,694	2,97,978	69,714	...	4,980	25,580	...
Gram and pulses	3,45,838	89,795	2,53,738	62,125	92,160	27,070	...	...
GRAIN & PULSES	...	...	...	...	...	...	...	...
Rice, husked	9,74,129	1,60,069	9,70,410	1,85,609	5,710	...	...	25,540
Do., unhusked	4,713	1,740	42,853	8,310	...	...	38,140	3,570
Other rain and spring crops	79,942	10,310	1,01,782	14,550	...	...	25,840	4,240
Government stores	30,059	48,597	24,690	38,000	3,569	10,597	...	...
Gums and resins	4,778	2,649	4,590	2,570	418	79	...	...
HIDES & SKINS	...	...	...	...	...	...	...	...
Hides of cattle	53,402	31,861	81,731	53,959	...	...	28,239	22,096
Skins of sheep, goats, and small animals	11,553	4,583	12,173	4,951	...	...	621	368
Horns	2,071	1,167	1,830	1,083	241	84	...	...
LAC	...	...	...	...	...	...	...	...
Lac, dye	19,680	13,819	17,549	13,546	2,131	273	...	...
Do., shell	22,213	7,061	22,659	7,269	...	...	437	263
Do., stick and other kinds	1,917	3,608	2,063	3,801	...	...	149	103
LEATHER	...	...	...	...	...	...	...	...
Leather, unmanufactured	2,453	3,349	5,715	3,902	...	...	322	...
Ditto, manufactured	19,807	19,426	21,417	17,834	...	...	1,529	...
Liquors	1,072	551	1,059	470	13	81	...	...
Metals	2,75,457	33,732	2,67,265	34,726	8,172	...	...	971
MINERALS	...	...	...	...	...	...	...	...
Brass and copper	32,729	22,692	18,821	11,609	14,408	10,833	...	...
IRON	1,25,050	89,578	1,01,279	56,549	21,731	33,029	...	...
Other metals	7,122	5,294	8,091	5,966	...	...	969	572
OP.	...	...	...	...	...	...	...	...
Saltpetre	57,177	84,333	53,761	24,843	3,476	4,092	...	...
Oils	173	848	36,722	38,361	...	...	36,550	37,545
Opium	15,139	9,672	3,872	3,424	12,267	148	...	...
Paints and colours	35,648	23,361	36,161	18,799	...	4,502	613	...
PROVISIONS	...	...	...	...	...	...	...	...
Ghee	11,247	11,515	10,516	10,290	931	1,558	...	...
Other kinds	49,239	2,940	1,29,633	3,354	...	...	89,323	1,444
Railway materials, Construction Account	4,41,150	1,46,381	3,10,366	62,026	1,30,784	84,355	...	...
Ditto ditto, Foreign	5,64,573	1,18,787	4,96,637	1,14,770	...	...	31,764	...
Salt	1,32,335	66,982	83,790	37,051	48,583	19,931	...	...
SALTPETRE, &c.	...	...	...	...	...	...	...	...
Saltpetre	9,438	8,629	12,627	4,718	...	...	3,189	...
Other saline substances	4,10,353	1,24,958	3,07,513	83,728	1,02,840	41,200	...	...
SEEDS	...	...	...	...	...	...	...	...
Linseed	3,93,187	87,234	3,06,947	72,214	86,960	15,020	...	...
Mustard and rape	17,467	5,233	6,437	665	12,030	2,570	...	...
Til or sinjelly	83,625	19,408	83,945	31,945	...	...	5,220	12,450
Other oilseeds	27,583	5,986	46,863	11,726	...	...	17,980	8,740
OTHER SEEDS.	...	...	...	...	...	...	...	...
Indigo seed	...	...	...	...	...	...	...	...
Tea seed	49,942	15,225	35,562	8,675	14,380	6,550	...	...
Other kinds	2,398	1,402	2,085	1,390	123	12	...	...
SILK	...	...	...	...	...	...	...	...
Do., manufactured (European)	303	342	391	338	...	4	88	...
Do., ditto (Indian)	46,082	31,490	45,059	32,105	1,023	...	...	619
Spices	2,44,121	35,917	2,30,566	32,894	13,555	3,023	...	...
Stone and marble	3,85,925	78,352	2,96,179	56,627	89,746	16,725	...	...
SUGAR	...	...	...	...	...	...	...	...
Sugar, refined	3,17,423	79,977	4,69,434	61,670	12,907	1,52,030	...	...
Do., unrefined	1,957	1,394	2,518	2,581	...	...	381	1,187
TEA	...	...	...	...	...	...	...	...
Do., Foreign	47,729	23,321	34,800	16,519	12,839	6,502	...	...
Tobacco	1,32,599	25,190	85,517	13,172	67,982	12,925	...	...
WOOD	...	...	...	...	...	...	...	...
Firewood	74,593	4,731	30,984	2,603	43,409	2,225	...	...
Wool, raw	569	631	746	630	213	41	...	...
Do., manufactured (European)	...	...	...	...	...	...	...	...
Do., manufactured (Indian)	1,174	1,130	1,157	1,028	87	102	...	...
Shawls	...	...	...	...	...	...	...	...
All other articles of merchandise	3,41,966	2,62,325	3,53,562	2,68,425	...	...	11,367	6,070
Bones	74,992	22,007	34,530	8,046	40,372	19,961	...	...
Potatoes	52,728	10,642	66,010	11,636	...	...	3,282	394
Total	1,50,30,854	31,90,051	1,14,32,500	29,50,317	16,85,590	4,64,208	4,97,245	1,64,474

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks ended 29th March 1890.

INCREASES.

Cotton.—The large increase in earnings, as compared with weight carried, is attributed to considerable despatches having been made to Calcutta from stations above Cawnpore over long leads.

Gram and Pulses.—The increase is chiefly in despatches from stations on the Dinapore and Allahabad districts to Howrah, for shipment to Burmah.

Government Stores.—Principally in despatches of ammunition for Government from Howrah to Agra.

Iron.—This consisted chiefly of iron pipes and machinery for water-works at Allahabad, Agra and Delhi, from Howrah.

Oils.—Chiefly in despatches of kerosine-oil from Howrah to Jubbulpore, Agra, Delhi, and *via* Ghaziabad.

Foreign Railway Material.—Chiefly in despatches from Howrah to Umara and Umballa Cantonment.

Saltpetre.—Chiefly from the North-West Provinces to Howrah.

Seeds.—The improvement was due to a demand for linseed and mustard seed in Calcutta for export.

Timber.—Principally in despatches of sleepers and teak timber from Howrah to Mokameh Ghât and Agra.

Sugar (refined).—Large quantities were despatched principally from stations on the Shahabad district and Cawnpore to Agra, Delhi, *via* Jubbulpore and *via* Agra.

Bones.—Chiefly in despatches from *via* Moghul Serai and Delhi to Bally.

DECREASES.

Coal and Coke.—There was an increase in weight carried attended with a decrease in the earnings.

Rice (husked and unhusked).—The continued absence of demand from the upper districts caused this decrease.

Hides.—The decrease was chiefly due to supplies having fallen short of actual requirements.

Opium.—This was due to smaller despatches from Patna and *via* Tari Ghât to Howrah.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 13th May 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 1,526½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	281,426	2,63,595 9 0	24,88,125 10	6,30,552 3 3	20,762 0 0	9,15,249 12 3	63,471	97,239	1,63,410
or per mile of railway ...	173 0 11	173 0 11	15,642 10 0	413 5 5	13 9 2	599 15 6	.....	.....	.....
for previous 18 weeks of half-year ...	4,657,808	52,47,420 15 0	4,73,46,765 0	1,10,80,228 12 0	3,50,474 1 9	1,86,87,123 12 9	1,181,197½	1,737,045½	2,918,242½
Total for 19 weeks ...	4,939,234	65,11,416 8 0	4,98,34,960 10	1,17,10,780 15 3	3,80,176 1 9	1,76,02,373 9 0	1,240,668½	1,834,084½	3,081,653½
COMPARISON.									
Total for corresponding week of previous year ...	304,417	2,69,273 12 10	31,44,942 10	7,18,507 3 11	18,993 15 6	10,06,775 0 3	65,271	110,270	175,541
or per mile of railway corresponding week of previous year ...	176 8 3	176 8 3	15,642 10 0	471 0 0	12 7 2	659 15 5	.....	.....	.....
Total to corresponding date of previous year ...	5,086,886	57,15,939 13 0	5,34,13,426 10	1,17,14,637 3 7	3,15,833 4 9	1,77,46,430 5 4	1,253,695	1,857,845	3,110,540

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,526½	10,06,775	660	1,525½	2,15,250	600	1,525½	59,20,547	614	1,525½	54,53,786	594	.....	1,86,761

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,862	6,303 11 0	51,283 20	3,651 7 0	42 4 0	9,997 6 0	1,511	1,048	2,559
Or per mile of railway ...	242½	110 3 3	896 20	63 13 5	0 11 10	174 12 6	.....	.....	.....
For previous 18 weeks of half-year ...	242,802	1,22,882 3 0	8,83,105 10	57,173 7 0	609 0 0	1,89,754 10 0	30,000½	12,930	42,930½
Total for 19 weeks ...	255,944	1,29,185 14 0	9,34,389 0	60,824 14 0	741 4 0	1,90,752 0 0	31,500½	13,978	45,478½
COMPARISON.									
Total for corresponding week of previous year ...	12,554	5,658 3 4	67,994 30	3,250 4 0	41 10 9	8,960 2 1	1,757	555	2,312
Per mile of railway corresponding week of previous year ...	219½	98 14 8	1,188 30	57 5 7	0 11 8	156 15 11	.....	.....	.....
Total to corresponding date of previous year ...	272,098½	1,46,118 10 4	8,16,532 20	47,972 12 0	1,456 6 6	1,95,842 12 10	33,986	13,959	47,945

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,980	157	57½	9,997	175	57½	57,948	169	57½	62,121	181	4,173	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,850	5,170 0 0	11,710 20	423 4 0	7 6 0	5,600 10 0	897	235	1,132
Or per mile of railway ...	.....	232 5 9	.....	19 0 4	0 5 4	251 11 5	.....	.....	.....
For previous 18 weeks of half-year ...	398,554	1,08,111 3 0	2,59,219 30	8,760 10 0	185 11 0	1,17,037 8 0	15,938	1,825	17,763
Total for 19 weeks ...	419,734	1,18,281 3 0	2,70,930 10	9,183 14 0	193 1 0	1,22,038 2 0	16,855	2,089	18,944
COMPARISON.									
Total for corresponding week of previous year ...	23,684	6,013 8 9	11,891 30	394 15 0	9 9 6	6,418 1 3	911	27	938
Per mile of railway corresponding week of previous year ...	.....	270 4 4	.....	17 12 0	0 6 11	288 7 3	.....	.....	.....
Total to corresponding date of previous year ...	445,098½	1,17,546 9 0	1,84,648 0	6,654 14 0	137 12 6	1,24,339 3 6	17,518	1,160	18,678

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	418	88	22½	5,601	252	22½	43,174	329	22½	41,395	310	.....	1,779

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 3rd May 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	224,610	75,930 0 0	6,13,100 0	1,02,160 0 0	20,850 0 0	2,04,980 0 0	23,131	29,467	52,598
Or per mile of railway...	327	102 0 0	821 0	137 0 0	115 0 0	254 0 0	.....	.....	.....
For previous 17 weeks of half-year	2,692,710	13,26,417 0 0	97,77,680 0	17,76,206 0 0	3,25,390 0 0	*34,29,073 0 0	392,848	562,375	955,223
Total for 18 weeks	2,937,320	14,02,347 0 0	1,07,90,180 0	18,78,426 0 0	3,57,240 0 0	36,54,053 0 0	465,979	591,842	1,057,821
COMPARISON.									
Total for corresponding week of previous year	174,773	61,750 0 0	5,03,219 0	79,704 0 0	13,600 0 0	1,55,054 0 0	21,523	22,656	44,179
Or per mile of railway corresponding period of previous year	260	82 0 0	748 0	118 0 0	18 0 0	213 0 0	.....	.....	.....
Total to corresponding date of previous year	2,666,429	13,55,160 0 0	89,83,628 0	15,03,058 0 0	3,15,882 0 0	31,74,100 0 0	386,862	435,336	822,198

* Audited up to week ending 15th March 1890.

† Excluding steamer earnings.

a Due to Full Dole Jatra held at Khurdaha.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
673	Rs. 1,55,054	Rs. 230	747	Rs. 2,04,980	Rs. 274	673	Rs. 7,68,592	Rs. 228	747	Rs. 8,73,338	Rs. 234	Rs. 1,04,746	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	30,250	9,980 0 0	43,350 0	2,940 0 0	150 0 0	13,070 0 0	3,735	1,937	5,672
Or per mile of railway...	242	80 0 0	347 0	24 0 0	1 0 0	105 0 0	.....	.....	.....
For previous 17 weeks of half-year	472,944	1,63,134 0 0	9,17,897 0	52,482 0 0	1,648 0 0	*2,16,664 0 0	61,962	32,301	94,263
Total for 18 weeks	503,194	1,73,114 0 0	9,61,247 0	55,422 0 0	1,198 0 0	2,29,734 0 0	65,637	34,238	99,875
COMPARISON.									
Total for corresponding week of previous year	34,499	9,512 0 0	62,981 0	4,115 0 0	123 0 0	15,549 0 0	3,620	2,052	5,672
Or per mile of railway corresponding period of previous year	276	74 0 0	504 0	33 0 0	1 0 0	108 0 0	.....	.....	.....
Total to corresponding date of previous year	510,855	1,70,128 0 0	10,22,267 0	57,950 0 0	4,680 0 0	2,41,767 0 0	66,046	34,635	100,731

* Audited up to week ending 15th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
125	Rs. 13,549	Rs. 108	125	Rs. 13,070	Rs. 105	125	Rs. 64,026	Rs. 102	125	Rs. 58,826	Rs. 94	.....	Rs. 5,200

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,280	5,220 0 0	17,480 0	1,770 0 0	70 0 0	7,060 0 0	2,415	709	3,124
Or per mile of railway ...	178	61 0 0	203 0	20 0 0	1 0 0	82 0 0	.....	.....	.....
For previous 17 weeks of half-year ...	292,870	99,617 0 0	4,32,020 0	41,118 0 0	2,874 0 0	1,43,609 0 0	41,098	12,100	53,198
Total for 18 weeks ...	308,150	1,04,837 0 0	4,49,500 0	42,888 0 0	2,944 0 0	1,50,609 0 0	43,513	13,809	57,322
COMPARISON.									
Total for corresponding period of previous year ...	16,095	4,238 0 0	13,607 0	675 0 0	235 0 0	5,148 0 0	2,485	323	2,808
Per mile of railway corresponding period of previous year ...	187	49 0 0	158 0	8 0 0	3 0 0	60 0 0	.....	.....	.....
Total to corresponding date of previous year ...	284,972	86,709 0 0	2,11,805 0	17,709 0 0	3,008 0 0	1,07,426 0 0	44,075	13,048	57,123

* Audited up to week ending 16th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,148	60	86	7,000	82	86	24,769	58	86	35,030	81	10,261	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 10th May 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,267	1,150 0 0	4,932 0	308 0 0	16 0 0	1,474 0 0	509	254	763
Or per mile of railway ...	120	42 0 0	181 0	11 0 0	1 0 0	54 0 0	.....	.....	.....
For previous 17 weeks of half-year ...	53,841	21,093 0 0	2,30,306 0	13,975 0 0	1,772 0 0	36,840 0 0	8,944	8,303	17,247
Total for 18 weeks ...	62,108	22,243 0 0	2,35,238 0	14,283 0 0	1,788 0 0	38,314 0 0	9,543	8,557	18,100
COMPARISON.									
Total for corresponding week of previous year ...	3,095	1,151 0 0	7,921 0	634 0 0	16 0 0	1,801 0 0	509	303	812
Per mile of railway corresponding week of previous year ...	114	42 0 0	290 0	23 0 0	1 0 0	66 0 0	.....	.....	.....
Total to corresponding date of previous year ...	62,793	23,772 0 0	2,09,540 0	12,832 0 0	1,448 0 0	38,053 0 0	9,525	8,374	17,899

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,801	66	27½	1,474	54	27½	9,813	60	27½	9,610	59	.....	203

TIRHOOT STATE RAILWAY.

* Approximate Return of Traffic for the week ending 10th May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	45,765	16,371 0 0	2,24,307 0	27,640 0 0	3,028 0 0	47,659 0 0	4,923	8,112	13,035
Or per mile of railway ...	168	60 0 0	822 0	101 0 0	4 0 0	165 0 0*	.....	.....	.....
For previous 17 weeks of half-year ...	839,477	3,40,402 0 0	45,70,251 0	5,24,722 0 0	56,098 0 0	9,30,222 0 0	99,956	170,823	261,772
Total for 18 weeks ...	885,242	3,56,773 0 0	48,00,558 0	5,52,392 0 0	59,126 0 0	9,77,261 0 0	95,873	178,936	274,807
COMPARISON.									
Total for corresponding week of previous year ...	45,701	15,616 0 0	2,51,550 0	21,072 0 0	4,841 0 0	41,529 0 0	4,789	6,714	11,494
Per mile of railway corresponding week of previous year ...	169	57 0 0	921 0	77 0 0	1 0 0	155 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	812,686	3,07,143 0 0	28,43,492 0	2,65,653 0 0	65,068 0 0	6,37,864 0 0	100,471	166,499	266,970

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	41,529	152	273	47,659	172	273	2,25,485	138	273	2,77,687	169	52,302	.....

[REGISTERED No. 29.]

No. 22 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 28, 1890.

OFFICIAL PAPERS.

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Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 24th May, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIVN.	1 Burdwan May 24, '90	1.76	Weather—hot and seasonable with occasional showers. The rain has done much good. <i>Amun</i> is being sown in some places, and lands are being prepared for <i>amun</i> . More rain wanted, specially in Ranigunge. Prices of common rice:—
	Culina ...	1.53	
	Cutwa ...	1.63	
	Ranigunge ...	0.80	
	2 Bankoora „ 24, '90	2.29	Weather—seasonable. The rainfall of the week has been very favourable to agricultural operations and to crops on the ground. Common rice sells at 19 seers per rupee at Sudder and at 18 seers at Bissenpore.
	3 Birbhum „ 24, '90	0.29	Weather—cool for the season; afternoons usually cloudy, attended with high wind. Sugarcane planting going on. Common rice selling at from 16 to 20 seers per rupee.
	Rampore Haut ...	0.58	
	4 Midnapur „ 24, '90	2.42	Good rain throughout the district; though somewhat late for the <i>aus</i> crop, yet it is sufficient for ploughing of all lands. Prices of common rice:—
			Srs. Ch. } Sudder ... 15 0 } Culina ... 15 0 } per rupee. Cutwa ... 14 11 } Ranigunge ... 17 0 }
	5 Hooghly „ 24, '90	2.53	Weather—not hot for the time of year. Rain has done much good; ploughing for <i>aus</i> commenced. Prices of common rice:—
	Serampore ...	1.16	
	Jehanabad ...	2.30	
			Srs. } Sudder ... 13 } Serampore ... 16 } per rupee. Jehanabad ... 16 }
	Howrah „ 24, '90	1.29	Weather—hot; at times cloudy. Seasonable rain which fell will help ploughing for next crop. Price of common rice 12 seers per rupee.
	<i>Central Districts.</i>		
	6 24-Perghs. May 24, '90	1.37	Weather—hot. Sowing of <i>aus</i> paddy and jute proceeding. The rain has done much good to the young plants which have already appeared. Sugarcane doing well. Prices of common rice stationary.
	7 Nuddea „ 24, '90	0.84	Weather—seasonable. Rain during the week beneficial to sowing and to young plants. More rain needed.
	Kushtia ...	3.44	
	Meherpore ...	0.65	
	Chuadanga ...	2.36	
	Kanaghat ...	1.47	
	8 Khoolna „ 24, '90	0.15	Weather—hot; rainy in Satkhira. Cultivation of <i>aus</i> going on. <i>Zil</i> , the only crop on the ground, has been slightly injured in the Khoolna thana; elsewhere its condition is good.
	Bagirhat ...	0.50	
	Satkhira ...	3.43	
	9 Jessore „ 24, '90	0.60	Weather—cool in the first part of the week; hot latterly. Rain good for the sowings of <i>aus</i> , <i>amun</i> , indigo, and jute, which are going on briskly. Indigo has been cultivated on the normal area. Harvesting of <i>boro</i> nearly over.
	Jhenidah ...	0.56	
	Magura ...	2.36	
	Narail ...	4.63	
	Bongong ...	1.16	
	10 Moorsshedabad „ 24, '90	0.37	Weather—hot with storms. Rain is much needed, especially in the south of the district. Sowing of <i>aus</i> is retarded.
RAJSHAHY DIVN.	11 Dinagepur „ 24, '90	0.86	Weather—getting warm, though raining at intervals. Jute doing well. <i>Bhadol</i> sowing and sugarcane planting nearly over. Price of rice at Sudder and Thakurgaon stationary.
	Thakurgaon ...	1.07	
	12 Rajshahye „	...	Report not received.
	13 Rungpur „ 24, '90	1.12	Weather—sultry days with cool nights and frequent showers. Everything promises well. The jute is coming up magnificently; but the young paddy finds it difficult to keep pace with the abnormal growth of weeds.
	Kurigram ...	1.83	
	Nilphamari ...	3.17	
	14 Bogra „ 24, '90	0.26	Weather—first half of the week cooler than usual, and showery; second half very hot and fine. Jute and <i>aus</i> rice seedlings doing well. Land is being ploughed for <i>amun</i> . Common rice selling at 18 seers a rupee.
RAJSHAHY DIVN.	Sherpur ...	0.41	
	Nowkhilla ...	2.47	
	15 Pubna „ 24, '90	1.10	Weather—hot in day, but cool at night. The late rain has improved the condition of the standing crops. Price of rice continues stationary.
RAJSHAHY DIVN.	16 Darjeeling „ 24, '90	0.80	Weather—fair. Wheat and barley have been harvested. <i>Bhutta</i> and <i>chota marca</i> progressing favourably, and so also potatoes.
	17 ulpigoree „ 24, '90	0.08	Weather—hot and occasionally cloudy. Jute and <i>bhadol</i> are still being sown in a few places. Prospects satisfactory. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
DACCA DIV.	18 Dacca May 24, '90	0.62	Weather—very hot and sometimes cloudy. <i>Amun</i> and <i>aus</i> paddy nearly sown. Jute and <i>til</i> thriving. The late rain has done much good to the standing crops. Price of common rice 14 to 16 seers per rupee.
	19 Furreedpur „ 24, '90	0.43	Weather—seasonable. State and prospects of paddy, sugarcane, <i>til</i> , and jute fair. Harvesting of <i>jali dhan</i> is still in progress. Price of common rice ranges from 14 to 16 seers per rupee.
	Goatundo „ „	1.5	
	Madaripore „ „	0.83	
CHITTAGONG DIV.	20 Backergunge „ „	...	Report not received.
	21 Mymensingh „ 24, '90	0.80	Weather—very hot. Prospects of crops good. Common rice selling at 13 seers 10 chittacks per rupee.
	22 Chittagong „ 27, '90	0.38	Weather—hot with passing clouds. Prospects of <i>pania aus</i> crop good.
	23 Noakholly „ 24, '90	Nil	Weather—warm and sultry. 15 annas on average of <i>aus</i> crop reported to have been sown. Reports have been received from certain stations and outposts about the damage to a small extent caused to the young plants by insects called “cheenipota.”
	24 Tipperah „ 24, '90	0.07	Weather—hot and bright towards close of week. Rice, jute, and <i>til</i> doing well. Prices stationary.
PATNA DIV.	25 Chittagong Hill Tracts „ 22, '90	Nil	Weather—very hot throughout the week. Sowing in <i>jums</i> continues. Sugarcane progressing. Price of common rice 13 seers 5 chittacks per rupee.
	Hill Tipperah „ „	...	Report not received.
	26 Patna „ 24, '90	Nil	Weather—hot with high winds at night. <i>Cheena</i> and sugarcane doing well. Mango ripening and being brought to market in small quantities. Prices rising.
	27 Gya „ 23, '90	Nil	Weather—hot. Prospect of sugarcane and <i>cheena</i> favourable. Prices of food-grains almost stationary.
	28 Shahabad „ 24, '90	Nil	Weather—seasonable. Prospects of <i>cheena</i> and sugarcane good. Prices stationary.
	29 Durbhanga „ 24, '90	1.24	East wind prevailing. Paddy, <i>mung</i> , indigo, and <i>cheena</i> greatly benefited by the late rain. Lands are being prepared for <i>bhadoi</i> sowings. Prices remain stationary.
	30 Mozufferpur „ 24, '90	0.44	Showers throughout the district. Weather appears still unsettled. Rainfall has been beneficial. Cultivation of lands going on. Indigo prospects excellent. Paddy, <i>cheena</i> , <i>mung</i> , and <i>kans</i> in good condition.
	Hajipur „ „	0.11	
	Sitamarhi „ „	1.79	
	31 Saran „ 24, '90	Nil	Weather—hot and close; easterly winds. Indigo only fair. Ploughing going on.
	32 Chumpanur Bettiah „ 24, '90	1.70	Weather—hot. Rainfall during the present and past weeks has facilitated agricultural operations. Paddy and <i>bhadoi</i> crops are being sown. <i>Cheena</i> and <i>kodo</i> are growing well. Prices of food-grains almost stationary.
	„ „	0.73	
BAGULPORE DIV.	33 Monghyr „ 24, '90	1.50	Weather—very warm. Ploughing for <i>bhadoi</i> going on. More rain wanted.
	Jamui „ „	0.14	
	34 Bhagulpur „ 24, '90	0.62	Weather—close and cloudy with easterly wind. Cultivation of <i>bhadoi</i> crops is being pushed on, and prospects are favourable owing to the late rain.
	Banka „ „	0.17	
	Sopool „ „	0.69	
	35 Purneah „ 24, '90	0.40	Weather—getting hot, but mornings and evenings cool. Sugarcane, as well as <i>bhadoi</i> , jute, and indigo, doing well. More rain wanted.
	Kishengunge „ „	0.77	
	Arrareah „ „	1.80	
	36 Maldah „ 24, '90	0.22	Weather—generally hot and bright. A high west wind followed by a heavy shower of rain on the 23rd. Reaping of <i>boro</i> paddy nearly completed. <i>Bhadoi</i> and winter rice sowings going on. Other standing crops thriving well. Common rice selling at from 13 to 19 seers a rupee.
	Chanchal „ „	0.48	
	Shibgunge „ „	0.89	
	Gajole „ „	0.60	
	37 Sonthal Pergas „ 24, '90	0.09	Weather—cool; constant storms. Ploughing is going on pretty generally, but much more rain is wanted for cultivation in Deoghur, Godda, and Dumka. Sugarcane has been benefited by the rain.
	Deoghur „ „	0.38	
	Godda „ „	0.63	
	Jamtara „ „	1.34	
	Pakour „ „	0.96	
	Rajmehal „ „	Nil	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack ...	...	Report not received.
	39 Pooree May 23, '90	0.64	Weather—seasonable. The late rain has done much good to the sowing of <i>sarad</i> and <i>beali</i> crops. Miscellaneous crops doing well. Price of common rice stationary.
	Khoorda ...	0.46	
	40 Balasore „ 24, '90	1.20	Weather—cool for the time of year. Lands are being cultivated everywhere. Number of coolies on relief-works 179.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh May 24, '90	Nil	Weather—seasonable. Sugarcane and mango doing well. Lands are being ploughed. Rice selling at from 14 to 20 seers per rupee.
	42 Lohardugga „ 24, '90	0.46	Weather—seasonable. Ploughing and sowing of <i>gora</i> rice continue. Some damage has been caused to the mango fruit at Palamow by storm.
	Palamow (up to 21st) ...	0.77	
	43 Singbhoom May 24, '90	1.20	Weather—wet and stormy: most abnormal. Paddy is being sown. Sugarcane, cotton, and <i>bardhan</i> thriving. Lac is being planted, but the planting has only just commenced excepting in Shelaipahari, where 16 annas have already been planted. Price of common rice varies from 16 seers per rupee in Manarpore to 24 seers per rupee in Dhalbhum. In Chybassa it is selling at 18 seers per rupee.
	44 Manbhoom „ 24, 90	0.33	Weather—hot and cloudy. Ploughing going on freely, after the late showers. Rice selling at from 18 to 24 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 27th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
15TH MAY 1890.

PRICES-CURRENT (retail) of Food-grains, Fireworks and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Bardwan	13 4	15 4	13 4	...	...	...	12 0	12 12	11 10	15 6	15 9	15 6	...	...	...
2	Bankoora	15 0	15 0	14 0	20 0	20 0	18 0	17 8	17 8	15 0	20 0	19 0	17 8	...	...	...
3	Beerbhoom	16 8	18 0	14 4	...	...	...	12 12	13 8	12 0	15 12	16 8	13 8	...	...	...
4	Midnapore	13 0	14 0	10 0	15 0	15 0	...	13 8	14 0	11 0	16 0	17 0	15 8	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	13 0	14 0	13 0	...	...	...
	Howrah	...	...	...	...	...	...	11 4	11 4	10 0	14 0	14 8	13 8	...	...	...
Central Districts.																			
	Calcutta	13 8	13 4	12 4	17 8	17 8	17 0	8 15	8 11	8 13	13 4	13 11	12 15	19 13	21 7	16 13			
6	24-Pergunnahs	14 8	14 8	13 4	18 8	20 0	18 0	8 0	8 0	8 0	14 8	14 8	14 0	...	...	...
7	Nuddea	15 0	15 0	14 15	20 0	20 0	20 0	11 6	11 14	12 0	13 5	13 5	14 2	...	...	...
8	Khoolna	...	...	...	...	...	...	13 8	12 0	10 11	16 0	15 0	13 0	...	...	...
9	Jessore	13 0	13 0	11 4	...	...	...	11 0	9 0	11 0	14 8	15 0	14 0	...	...	...
10	Moorshedabad	16 0	16 0	13 4	...	...	...	10 0	10 0	11 0	13 5	13 5	14 0	...	...	...
11	Dinapore	19 4	19 4	12 0	16 0	14 8	16 0	13 3	15 0	13 0	15 12	18 0	15 8	...	...	...
12	Rajshahye	17 4	17 4	15 12	24 0	24 0	19 8	12 12	12 0	12 0	13 8	13 8	13 8	...	...	...
13	Rungpore	13 5	13 5	14 8	...	...	...	9 6	9 6	10 8	14 8	13 5	15 3	...	...	...
14	Bogra	13 8	13 8	13 8	...	...	...	12 0	12 0	13 8	16 8	16 8	16 8	...	...	...
15	Pubna	18 12	18 12	17 4	...	...	...	6 12	6 12	7 8	15 0	14 4	15 0	...	...	...
16	Darjeeling	9 0	9 0	10 0	10 0	10 0	6 0	5 0	6 0	6 0	12 0	12 0	11 0	...	...	...
17	Julpigoree	13 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	14 0	16 0	16 0	...	...	...
Eastern Districts.																			
18	Dacca	13 0	13 0	13 0	16 0	16 0	26 0	13 0	14 0	12 0	15 0	15 0	14 0	...	...	...
19	Furzedpore	14 0	14 0	16 0	17 0	18 0	18 0	9 0	9 0	8 0	13 0	13 0	11 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 8	12 8	10 8	13 0	14 0	12 0	...	...	...
21	Mymensingh	12 0	11 8	12 0	...	...	...	11 0	10 0	13 0	13 4	13 8	16 0	...	...	...

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Raneeungo 10½ seers.

A1 At Rampore Haut retail price of salt 9 seers per rupee.

B In subdivisions retail prices of salt per rupee are :—Contai 8 seers, Tumlook 8 seers, and Ghatal 10½ seers.

C In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Jehanabad 10 seers.

D In subdivisions retail prices of salt per rupee are :—Baraset 9 seers, Basirhat 9 seers, Diamond Harbour (Kulpihat 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

E In subdivisions retail prices of salt per rupee are :—Kooahata 10 seers, Meherpore 9 seers, Choondanga 9 seers, and Ranaghat 9 seers 2 chittacks.

F At Bagirhat retail price of salt 8 seers per rupee.

G In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.

H In the Lalbagh, Jungpore, and Kandi subdivisions retail price of salt 10 seers per rupee.

SEERS OF 80 TOLAHS.

BAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>ideum.</i>)			MAJUA OR RAGI. (<i>Eleusine Corocana</i> .)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

[illegible]

16	11	16	2	13	3	279	280	281
282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299
300	301	302	303	304	305	306	307	308
309	310	311	312	313	314	315	316	317
318	319	320	321	322	323	324	325	326
327	328	329	330	331	332	333	334	335
336	337	338	339	340	341	342	343	344
345	346	347	348	349	350	351	352	353
354	355	356	357	358	359	360	361	362
363	364	365	366	367	368	369	370	371
372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389
390	391	392	393	394	395	396	397	398
399	400	401	402	403	404	405	406	407
408	409	410	411	412	413	414	415	416
417	418	419	420	421	422	423	424	425
426	427	428	429	430	431	432	433	434
435	436	437	438	439	440	441	442	443
444	445	446	447	448	449	450	451	452
453	454	455	456	457	458	459	460	461
462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479
480	481	482	483	484	485	486	487	488
489	490	491	492	493	494	495	496	497
498	499	500	501	502	503	504	505	506
507	508	509	510	511	512	513	514	515
516	517	518	519	520	521	522	523	524
525	526	527	528	529	530	531	532	533
534	535	536	537	538	539	540	541	542
543	544	545	546	547	548	549	550	551
552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569
570	571	572	573	574	575	576	577	578
579	580	581	582	583	584	585	586	587
588	589	590	591	592	593	594	595	596
597	598	599	600	601	602	603	604	605
606	607	608	609	610	611	612	613	614
615	616	617	618	619	620	621	622	623
624	625	626	627	628	629	630	631	632
633	634	635	636	637	638	639	640	641
642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659
660	661	662	663	664	665	666	667	668
669	670	671	672	673	674	675	676	677
678	679	680	681	682	683	684	685	686
687	688	689	690	691	692	693	694	695
696	697	698	699	700	701	702	703	704
705	706	707	708	709	710	711	712	713
714	715	716	717	718	719	720	721	722
723	724	725	726	727	728	729	730	731
732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749
750	751	752	753	754	755	756	757	758
759	760	761	762	763	764	765	766	767
768	769	770	771	772	773	774	775	776
777	778	779	780	781	782	783	784	785
786	787	788	789	790	791	792	793	794
795	796	797	798	799	800	801	802	803
804	805	806	807	808	809	810	811	812
813	814	815	816	817	818	819	820	821
822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839
840	841	842	843	844	845	846	847	848
849	850	851	852	853	854	855	856	857
858	859	860	861	862	863	864	865	866
867	868	869	870	871	872	873	874	875
876	877	878	879	880	881	882	883	884
885	886	887	888	889	890	891	892	893
894	895	896	897	898	899	900	901	902
903	904	905	906	907	908	909	910	911
912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929
930	931	932	933	934	935	936	937	938
939	940	941	942	943	944	945	946	947
948	949	950	951	952	953	954	955	956
957	958	959	960	961	962	963	964	965
966	967	968	969	970	971	972	973	974
975	976	977	978	979	980	981	982	983
984	985	986	987	988	989	990	991	992
993	994	995	996	997	998	999	1000	1001

22	222	222	222	222	222
222	222	222	222	222	222
222	222	222	222	222	222
222	222	222	222	222	222
22	22	222	222	222	222

KANGNI OR KAKUN,
ITALIAN MILLET.
(*Setaria italica*.)

GRAM, CHANA,
CHHOLA, KADALAY
OR SUNAGA.
(*Cicer arietinum*.)

Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
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S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	18	0	19	0	18	0
...	17	8	18	0	16	0
...	18	0	18	0	18	0
...	15	0	15	0	14	0
...	16	0	16	0	16	0
...	17	12	17	12	18	0

9	4	10	0	19	13	16	10	16	12	15	12
6	8	6	0	12	0	17	12	19	0	17	0
...	...	...	...	20	0	20	8	19	0	...	...
...	...	...	...	14	8	13	0	16	0	...	...
...	...	...	...	16	0	16	0	20	0	...	...
...	...	...	...	22	0	22	0	18	4	...	...
...	...	...	...	16	0	16	0	16	0	...	...
...	...	...	...	19	8	19	8	19	8	...	...
...	...	...	...	13	5	12	4	13	0	...	...
...	...	...	...	15	0	15	0	16	8	...	...
...	...	...	...	17	8	18	12	18	0	...	...
...	...	...	...	11	0	10	0	9	0	...	...
...	...	...	...	12	0	13	0	16	0	...	...

...	...	...	...	14	0	14	0	14	0
...	...	...	...	15	0	15	0	20	0
...	...	...	...	14	8	13	12	16	0
...	...	...	...	14	8	13	4	13	0

Head-quarter Station Bazars of the Districts of Bengal on the 15th May 1890.

												WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	18 0	20 0	19 0	100 0	100 0	107 0	A	10 0	10 0	9 14	3 11	3 11	3 11	6	Burdwan.	
29 0	30 0	21 0	21 0	21 4	16 0	280 0	280 0	280 0	A1	10 0	10 0	10 0	3 15	3 15	3 15	0	Bankoora.	
...	13 8	13 8	12 0	160 0	160 0	160 0	B	10 8	10 8	10 0	3 10	3 10	3 14	0	Beerbhoom.	
...	13 0	14 0	14 0	160 0	160 0	160 0	C	10 0	10 2	10 4	3 14	3 14	3 14	0	Midnapore.	
...	11 0	11 0	13 0	120 0	120 0	120 0	...	9 0	9 0	9 0	3 11	3 11	3 11	6	Hooghly.	
...	13 0	13 4	13 0	100 0	100 0	100 0	...	10 0	10 0	10 8	3 11	3 12	3 10	6	Howrah.	
Central Districts.																		
16 15	18 2	...	16 7	16 11	16 4	99 10	100 0	100 0	D	10 6	10 5	10 8	3 9	3 9	3 9	3	Calcutta.	
...	17 0	17 0	17 0	100 0	100 0	100 0	E	10 0	10 4	10 8	3 10	3 9	3 8	9	24-Pergunnahs.	
...	19 0	19 0	16 0	...	...	...	F	9 13	9 13	9 2	3 14	3 14	3 14	0	Nuddea.	
...	160 0	160 0	180 0	G	9 8	9 8	9 0	4 4	4 4	4 0	0	Khoolna.	
...	18 0	15 0	20 0	160 0	160 0	160 0	H	9 2	9 2	9 2	4 0	4 0	4 0	0	Jessore.	
...	16 0	16 0	18 12	200 0	200 0	200 0	I	11 0	10 12	9 0	3 12	3 12	4 0	0	Moorshedabad.	
...	15 12	15 8	12 0	180 0	160 0	160 0	J	9 8	9 8	9 8	4 0	4 0	3 15	0	Dinapore.	
...	18 2	18 8	19 1	240 0	240 0	240 0	K	9 0	9 0	8 10	4 2	4 2	4 5	4	Rajshahye.	
...	12 4	10 10	13 0	100 0	100 0	120 0	L	9 6	9 6	9 6	4 8	4 8	4 4	0	Rungpore.	
...	90 0	90 0	90 0	M	9 0	9 0	9 0	4 4	4 4	4 2	8	Bogra.	
...	17 8	18 12	18 12	200 0	200 0	200 0	N	8 11	8 11	9 2	4 0	4 0	4 1	0	Pubna.	
13 0	13 0	18 0	8 0	9 0	...	120 0	120 0	120 0	O	8 0	7 0	7 0	5 0	5 0	5 0	0	Darjeeling.	
...	12 0	12 0	10 0	128 0	128 0	128 0	P	9 0	9 0	9 0	4 2	4 2	4 4	0	Julpigoree.	
Eastern Districts.																		
...	13 0	13 0	16 0	160 0	160 0	160 0	Q	9 8	9 8	10 0	4 2	4 2	3 15	0	Dacca.	
15 0	15 0	...	10 0	11 0	10 0	120 0	120 0	120 0	R	8 8	8 8	9 0	4 12	4 12	4 0	0	Furreedpore.	
...	11 8	12 4	12 8	120 0	120 0	120 0	S	10 0	10 0	9 9	4 0	3 15	4 2	0	Backergunge.	
...	9 0	10 0	16 0	...	...	...	T	9 12	9 8	10 0	4 6	4 1	3 15	0	Mymensingh.	

I At Thakurgaon retail price of salt 8 seers per rupee.

J In subdivisions retail prices of salt per rupee are :—Nattore 9 seers and Nowgong 9 seers 9 chittacks.

K In subdivisions retail prices of salt per rupee are :—Gaibanda 8 seers, Nilphamari 9 seers, and Kurigram 8 seers.

L At Serajgunge retail price of salt 8 seers per rupee.

M At Siliguri wholesale price of salt Rs. 4-4 per maund.

N In the Alipore subdivision (at Fallacatta) retail price of salt 10½ seers per rupee.

O In subdivisions retail prices of salt per rupee are :—Manickgunge 8 seers, Moongheegunge 8 seers 14 chittacks, and Narain.

gunge 10 seers.

P In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozopore 9 seers, and Bhola 8 seers.

Q Retail price of salt in the Kishoregunge, Sherpore, and Netrokona subdivisions 8 seers per rupee and in the Jamalpore subdivi.

sion 10 seers per rupee.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																			
22	Chittagong	11 0	11 0	11 0	...	...	...	12 0	12 8	10 0	15 0	16 0	12 0	...	...	...	...	...	...
23	Noakholly	...	...	...	...	...	...	14 0	14 0	12 0	15 0	15 0	13 0	...	...	...	...	...	...
24	Tipperah	14 9½	14 9½	12 0	...	...	...	10 0	10 0	13 0	13 11	13 5	14 0	...	...	...	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	12 0	12 0	10 0	13 5	13 5	11 6	...	...	...	...	...	...
	Hill Tipperah	6 0	6 6	6 0	...	...	...	8 0	8 0	8 0	13 0	14 0	15 0	...	...	...	...	...	...
BEHAR.																			
26	Patna	17 0	17 8 1	...	23 0	24 8	22 0	10 0	10 0	10 0	16 14	16 14	13 8	13 0	18 0	...	...	...	...
27	Gya	16 0	15 8	15 8	23 8	24 0	23 0	11 8	11 8	8 8	16 0	16 0	12 12	...	...	...	...	...	...
		15 8	17 8	16 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	Shahabad	15 0	15 0	14 8	22 0	22 0	20 0	8 0	8 0	8 8	14 0	14 0	13 8	...	...	...	...	...	...
29	Durbhunga	14 4	16 8	13 11	20 14	26 0	19 6	9 11	11 0	9 2	15 6	16 0	12 9	...	...	...	...	...	...
30	Mozufferpore	16 0	16 0	12 0	20 0	25 0	16 0	9 0	9 0	9 0	15 0	15 0	11 0	...	...	...	...	...	...
31	Sarun	15 8	15 8	13 8	21 4	21 8	19 8	8 8	8 8	8 8	14 4	13 8	12 2	...	...	...	...	...	...
32	Chumparun	16 12	16 0	11 8	25 0	23 0	13 0	8 8	8 0	7 0	16 4	16 0	10 0	...	...	...	...	...	...
33	Monghyr	17 13	17 13	16 4	23 1	23 1	21 0	15 12	15 12	10 8	17 13	17 13	11 9	...	...	...	...	...	...
34	Bhagulpore	17 11	17 11	15 2	22 11	24 0	18 15	10 1	10 1	11 9	13 4	12 10	13 4	...	...	...	...	...	...
								Old.	Old.	Old.	Old.	Old.	Old.	...	...	...	...	...	...
								New.	New.	New.	New.	New.	New.	...	...	...	...	...	...
35	Purneah	18 0	18 0	20 0	...	...	...	16 0	17 0	16 0	18 0	18 0	17 0	...	...	...	...	...	...
36	Maldah	18 0	18 0	15 0	...	...	...	11 0	10 0	10 0	14 0	13 0	13 13	...	...	...	...	...	...
37	Sonthal Pergas.	13 0	13 0	12 0	...	...	...	13 0	13 0	12 0	16 0	16 0	14 0	...	...	...	...	...	...
ORISSA.																			
38	Cuttack	10 8	11 13	10 8	...	...	...	10 8	10 8	10 8	17 1*	18 6	14 7	...	...	...	...	...	...
39	Pooree	11 13	13 2	11 13	...	...	...	17 1	17 1	11 13	21 0	21 0	15 12	...	...	...	...	...	...
40	Balasore	15 0	15 0	17 0	13 0	13 0	13 0	13 0	13 0	12 0	13 8	19 0	17 0	...	...	...	...	...	...
CHOTA NAGPORE.																			
South-West Frontier Agency.																			
41	Hazaribagh	14 0	13 8	12 4	18 0	13 0	17 0	9 0	10 0	8 0	16 0	17 0	13 8	...	...	...	...	...	...
42	Lohardugga	8 8 1	8 8	12 0	24 0	18 0	14 0	14 0	14 0	12 0	16 8	16 0	13 8	...	...	...	...	...	...
		13 4	14 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	Singbhoom	10 0	10 0	11 0	10 0	10 0	16 0	16 0	16 0	12 0	20 0	20 0	16 0	...	...	...	...	...	...
44	Manbhoom	13 5	13 0	12 0	20 0	20 0	...	14 0	14 0	13 0	22 0	22 0	19 0	...	...	...	...	...	...

* Price of common rice at Jajpore 22 seers 5 chittacks and Kendrapara 23 seers 10 chittacks per rupee.
 B At Cox's Bazar retail price of salt 8 seers per rupee.
 S At Feni Haut retail price of salt 8 seers per rupee.
 T In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 9½ seers, and Bhabuah 9 seers.
 U In subdivisions retail prices of salt per rupee are :—Madhubani 10 seers and Samastipore 11 seers.
 U1 In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
The 27th May, 1890.

80 TOLAHS.

A OR CUMBU.
(*Antium typho-*
ideum.)

MARUA OR RAGI.
(*Eleusine Corocana.*)

Next preceding re-
turn.
Corresponding re-
turn of last year.
Present return.
Next preceding re-
turn.
Corresponding re-
turn of last year.

S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.

101	100	100	100	100	100
102	101	101	101	101	101
103	102	102	102	102	102
104	103	103	103	103	103
105	104	104	104	104	104
106	105	105	105	105	105

26 0 28 0

107	106	106	106	106	106
108	107	107	107	107	107
109	108	108	108	108	108
110	109	109	109	109	109

23 1 24 0 18 4

111	110	110	110	110	110
112	111	111	111	111	111
113	112	112	112	112	112
114	113	113	113	113	113

22 0 22 0 20 0

115	114	114	114	114	114
116	115	115	115	115	115
117	116	116	116	116	116
118	117	117	117	117	117
119	118	118	118	118	118
120	119	119	119	119	119

20 1 20 1 18 1

121	120	120	120	120	120
122	121	121	121	121	121
123	122	122	122	122	122
124	123	123	123	123	123

27 0 27 0 20 0

125	124	124	124	124	124
126	125	125	125	125	125
127	126	126	126	126	126
128	127	127	127	127	127

36 0 36 0 25 0

129	128	128	128	128	128
130	129	129	129	129	129
131	130	130	130	130	130
132	131	131	131	131	131

KANGNI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Oicer aristinum</i> .)		
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Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
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S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
13	0	12	4	12	0	12	0	12	0	12	0
12	0	12	0	12	0	12	0	12	0	12	0
13	5	13	5	13	5	13	5	13	5	13	5
12	0	12	0	12	0	12	0	12	0	12	0

1	0	13	0	12	0	21	0	23	0	21	0
15	0	15	0	11	0	19	8	20	0	19	0
22	0	23	0	20	0	20	0	20	0	20	0
20	14	20	0	19	6	21	0	20	0	19	6
21	0	20	0	19	6	20	8	20	12	19	4
24	8	23	0	16	0	12	9	23	1	23	1
21	7	21	7	18	4	23	0	22	0	23	0
21	0	22	0	22	8	17	0	17	0	17	0
14	7	15	12	19	11	13	2	14	7	15	12
14	0	14	0	14	0	16	0	16	0	14	0
13	4	12	12	12	0	10	0	10	0	10	0
17	0	17	0	17	0	17	0	17	0	17	0

Station Bazars of the Districts of Bengal on the 15th May 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CADJAN PRA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	R 10 8	10 0	9 0	3 12 0	3 12 0	4 0 0	Chittagong.
...	...	...	8 0	8 0	8 0	...	...	...	S 9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
...	...	...	8 6 3	8 6 3	9 0	...	...	...	9 11	9 11	8 0	4 2 0	4 2 0	4 6 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	5 0 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
Eastern Districts—concluded.															
...	...	...	22 0	23 0	21 0	140 0	130 0	130 0	10 0	10 0	10 0	3 14 0	3 14 0	3 12 3	BEHAR.
...	...	...	21 0	21 0	18 0	160 0	160 0	200 0	9 2	9 2	9 2	4 2 0	4 2 0	4 2 0	Patna.
...	...	...	20 0	20 0	13 0	160 0	160 0	160 0	T 10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Gya.
19 12	21 0	16 0	19 12	21 0	18 4	160 0	160 0	160 0	U 10 0	11 0	9 14	...	3 10 3	4 0 9	Shahabad.
18 0	21 0	16 0	20 0	18 0	20 0	160 0	160 0	160 0	U1 10 0	10 0	10 0	4 0 0	4 0 0	3 12 0	Durbhunga.
19 8	20 0	18 8	20 4	20 0	17 8	160 0	160 0	160 0	9 8	9 8	10 0	4 1 0	4 1 0	3 15 0	Mozufferpore.
22 8	22 8	15 8	23 0	23 0	20 0	160 0	160 0	160 0	V 10 0	10 0	9 8	3 14 0	3 14 0	4 1 0	Sarun.
21 0	21 0	16 12	23 1	23 1	16 12	147 0	147 0	147 0	W 9 12	9 12	10 0	3 14 6	3 14 6	3 13 0	Chumparun.
22 11	22 11	16 12	20 3	20 3	18 15	176 12	176 12	176 12	10 1	10 1	10 1	3 15 6	3 15 6	3 13 0	Monghyr.
...	...	...	13 0	16 0	...	130 0	130 0	...	X 9 0	9 0	...	4 7 0	4 5 0	4 7 0	Bhagulpore.
...	...	...	...	...	...	140 0	160 0	160 0	9 0	9 0	9 0	4 2 0	4 0 0	4 0 0	Purneah.
20 0	21 0	17 0	21 0	20 0	22 0	200 0	200 0	200 0	9 0	9 0	9 0	4 0 0	4 0 0	4 3 0	Maldah.
Sonthal Pergas.															
ORISSA.															
...	...	...	18 6	19 11	19 11	80 0	80 0	80 0	8 0	8 0	8 0	4 7 0	4 7 0	4 7 0	Cuttack.
...	...	...	13 2	13 2	14 7	80 0	80 0	80 0	10 8	11 13	10 8	3 8 0	3 6 0	3 8 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	Y 10 0	10 0	10 0	5 14 0	3 4 0	3 15 0	Balasore.
CHOTA NAGPORE.															
South-West Frontier Agency.															
22 0	22 0	15 0	23 0	22 0	17 0	320 0	320 0	320 0	8 0	8 0	8 0	4 4 0	4 4 0	4 6 0	Hazaribagh.
31 0	30 0	16 0	Big. 19 0 13 0 12 0 Small. 25 0 27 0 14 0			120 0	120 0	140 0	8 8	8 8	8 0	4 10 0	4 10 0	4 15 0	Lohardugga.
12 0	12 0	...	14 0	14 0	15 0	240 0	240 0	200 0	8 8	8 8	7 0	4 12 0	4 12 0	5 8 0	Singbhoom.
32 0	32 0	25 0	20 0	19 0	16 0	300 0	300 0	200 0	Z 9 2	9 2	8 0	4 2 0	4 4 0	4 4 0	Manbhoom.

V At Bettiah retail price of salt 9½ seers per rupee.

W In subdivisions retail prices of salt per rupee are:—Begusarai 9½ seers and Jarai 9 seers.

X At Kishengunge retail price of salt 8 seers per rupee.

Y At Bhudruk retail price of salt 8 seers per rupee.

Z At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 6	2 12 3	2 13 7	2 0 11	2 0 8	2 1 10	4 3 6	4 5 2	4 4 2	2 12 4	2 10 8	2 13 4
2	Serajgunge ...	2 6 0	2 8 0	2 5 0	...	...	...	5 0 0	4 14 0	3 12 0	2 14 0	3 0 0	2 11 0
3	Dacca ...	3 0 0	3 0 0	3 0 0	2 7 0	2 7 0	1 8 0	3 0 0	2 13 0	3 4 0	2 10 0	2 10 0	2 12 0
4	Naraingunge ...	...	...	...	...	...	...	3 0 0	3 2 0	3 0 0	2 14 0	3 0 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 4 0	3 0 0	4 0 0	2 10 0	2 8 0	3 4 0
6	Patna ...	2 5 0 2 9 0	Red. White. 2 4 0 2 8 0	...	1 11 0	1 9 0	1 12 6	3 15 0	3 15 0	3 14 0	2 4 0	2 5 0	2 15 0
7	Balasore ...	2 8 0	2 8 0	2 4 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	2 0 0	2 0 0	2 1 3
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 0	1 14 0	2 4 0
9	Cuttack ...	3 10 0	3 4 0	3 10 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 10 0

CALCUTTA,
The 27th May, 1890.

OF 40 SEERS.

MARUA OR RAGL (<i>Eleusine Corocana</i> .)			KANGNI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. F.	R. A. P.	R. A. P.	R. A. F.	R. A. P.	R. A. P.
...	3 10 03	8 01 12	3
...
...
...
...
...
180	160	...	2 0 02	2 03 00	00
...
...
...

PRICES PER MAUND

JOWAR OR CHOLU. (<i>Sorghum Vulgare</i> .)			BAJRA OR CUMBU. (<i>Pennisetum typhoides</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
1 12 7 1 10 0	2 1 8 2 2 1 2	3 6 2 12 3			
...
...
...
...
2 4 0 2 2 0
...
...
...

in the undermentioned *Marts* of Bengal on the 15th May, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Arictinum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR THUR. CADJAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 2 3	2 1 6	2 4 9	2 2 4	1 15 6	...	2 3 5	2 2 2	2 3 7	0 5 6	0 5 6	0 5 6	3 9 3	3 9 3	3 9 3	Calcutta.
8 0	2 9 0	3 2 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 13 0	Serajgunge.
2 12 0	2 12 0	2 12 0	...	...	...	3 0 0	3 0 0	2 6 0	0 4 0	0 4 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
3 10 0	3 2 0	3 0 0	...	...	...	3 8 0	3 0 0	3 2 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
3 0 0	3 2 0	3 2 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 12 0	3 12 0	4 0 0	Chittagong.
1 13 6	1 11 0	1 14 0	...	...	...	1 12 6	1 11 0	1 12 6	0 5 0	0 5 0	0 5 0	...	3 14 0	3 12 3	Patna.
2 12 0	2 12 0	2 12 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 15 0	Baiasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 8 0	3 6 0	3 8 0	Pooree.
2 10 0	2 5 0	2 0 0	...	...	...	2 2 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	4 7 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

DISTRICT.			Representative station.		STATION OBSERVATIONS.												
					AIR PRESSURE.			WIND.		TEMPERATURE.							
					Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
ORISSA.	Pooree	Pooree	29.729	29.741	—	SW	36.0	90.7	20-22 May	73.1	17th May	89.8	81.0	85.4	—		
	Gopalpore	Gopalpore	29.715	29.737	+0.025	Southerly	42.5	89.2	20-23	76.8	21st	88.7	79.7	84.2	-1.0		
	False Point	False Point	29.720	29.741	+0.008	South- Westerly	31.9	91.5	22nd	72.1	19th	90.7	78.0	84.4	-0.8		
	Cuttack	Cuttack	29.680	29.740	+0.028	SW	95	105.9	21st	73.8	17th	102.7	79.6	91.2	+0.2		
SOUTH-WEST BENGAL.	Balasore	Balasore	29.681	29.739	+0.025	S	220.7	95.4	21st	73.8	21st	93.0	75.5	84.3	-3.3		
	South-West Midnapore	Saugor Island	29.719	29.745	+0.017	SW	38.4	94.2	19th	70.0	19th	92.5	77.6	85.1	-2.6		
	South 24-Pergunnahs	Midnapore	29.692	29.742	+0.030	S	319.7	99.3	21st	68.2	19th	95.6	75.5	85.6	-5.0		
	24-Pergunnahs	Calcutta	29.736	29.752	+0.051	SSW	123	96.5	21st	70.7	22nd	93.4	75.5	84.5	-2.1		
SOUTH-WEST BENGAL.	Howrah	Howrah	29.635	29.735	+0.017	E & S	93.6	100.7	21st	72.4	22nd	96.9	76.8	86.8	-1.6		
	Hoochly	Hoochly	29.424	29.728	+0.040	E	139.3	102.1	21st	67.6	22nd	96.7	75.1	83.9	—		
	Burdwan	Burdwan	29.419	29.753	+0.046	SE	105.7	102.0	19th & 21st May	73.9	19th	98.5	77.0	87.8	-3.4		
	West Burdwan	Raneegunge	29.691	29.758	+0.040	E	104.6	98.7	21st	72.3	21st	94.1	75.4	84.4	-2.5		
SOUTH-WEST BENGAL.	Moorsheadabad	Berhampore	29.711	29.759	+0.047	ESE	142.5	99.3	20th, 21st May	70.3	22nd	93.3	74.6	85.9	-2.9		
	Nuddea	Krishnagur	29.731	29.765	+0.030	SSE	69.8	95.8	20th, 21st May	74.4	17th, 22nd May	92.8	76.6	84.7	-2.1		
	Jessore	Jessore	29.703	29.793	+0.015	SE	73.1	94.2	23rd	74.0	17th	96.4	77.1	83.7	+0.8		
	Chittagong	Chittagong	—	—	—	—	—	—	—	—	—	—	—	—	—		
EAST BENGAL.	Chittagong Hill Tracts	Demagiri	29.728	29.770	+0.037	Calm	60.5	93.8	22nd, 23rd May	73.9	17th	90.9	77.1	84.0	-1.3		
	Backergunge	Barrisal	29.732	29.796	+0.068	SE	93.6	92.0	22nd, 23rd May	71.8	17th	88.5	76.7	82.6	-0.8		
	Noakholly	Noakholly	29.750	29.790	+0.046	Calm & SE	70.9	93.0	20th, 21st May	72.9	21st	88.7	75.8	82.3	-1.7		
	Furzedpore	Furzedpore	29.756	29.778	+0.034	ESE	92.8	92.1	20th, 21st May	70.7	17th	96.1	74.3	82.2	-2.6		
NORTH BENGAL.	Dacca	Dacca	29.750	29.786	+0.034	SE	91.6	92.8	23rd	71.3	17th	90.5	75.0	82.8	-1.1		
	Commillah	Commillah	29.758	29.797	+0.034	ENE	89.5	90.7	22nd	69.6	17th	87.2	74.7	81.0	-0.5		
	Mymensingh	Mymensingh	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Bogra	Bogra	29.719	29.766	+0.030	E	232.4	91.6	23rd	70.3	20th	89.0	74.2	81.6	-2.3		
NORTH BENGAL.	Pubna	Serajpore	29.695	29.766	+0.045	SE & SSE	80.8	93.8	23rd	70.7	21st	90.3	74.7	82.5	-3.9		
	Rajshahye	Rampore Beau- leah.	29.683	29.764	+0.037	E	62.7	97.7	23rd	71.5	17th	93.6	74.9	83.8	—		
	Maldah	Maldah	29.649	29.770	+0.023	E	41.4	92.1	23rd	69.6	21st	88.2	74.1	81.2	-2.7		
	Dinapore	Dinapore	29.670	29.796	+0.049	E	56.1	91.3	22nd	68.2	17th	88.6	72.2	80.4	-0.7		
NORTH BENGAL.	Rungpore	Rungpore	29.503	29.793	+0.041	?	289.2	91.4	22nd, 23rd May	66.1	17th	88.3	70.9	79.6	-0.5		
	Julpigoree	Julpigoree	22.938	—	—	ENE	89.9	63.6	23rd	49.1	22nd	59.1	61.6	55.1	-3.7		
	Cooch Behar	Cooch Behar	29.646	29.777	+0.062	NE, ESE	91.0	96.7	23rd	70.9	17th, 19th May	91.1	74.9	82.3	-2.8		
	Darjeeling Hill Tracts	Darjeeling	29.550	29.731	—	ESE	294.5	95.8	22nd	67.7	17th	91.6	74.0	82.8	—		
SOUTH BENGAL.	Purneah	Purneah	29.591	29.759	+0.048	ESE	153.0	97.4	23rd	—	—	93.0	—	—	—		
	North Bhagulpore	North Bhagulpore	29.535	29.764	+0.069	ENE	185.9	98.2	23rd	66.8	19th	93.2	73.4	83.3	-5.1		
	Mozufferpore	Mozufferpore	29.526	29.720	+0.032	E	194.6	100.3	21st	71.7	19th	97.2	76.6	86.9	-2.2		
	Durbhunga	Durbhunga	29.558	29.705	+0.045	SSW	144.6	107.4	21, 23	78.0	17th	104.5	80.9	92.7	+0.2		
SOUTH BENGAL.	Shahabad	Dehree*	29.462	29.753	+0.069	E, ENE	194.5	105.9	23rd	75.8	19th	101.3	79.0	100.1	-1.2		
	Buxar	Buxar	29.519	29.714	+0.045	E & ENE	147.9	104.4	23rd	72.0	19th	99.3	78.0	89.0	-2.9		
	Gya	Gya	29.345	29.716	+0.041	E	113.3	106.6	23rd	78.3	17th	103.2	81.2	92.3	-0.2		
	Patna	Patna	29.342	29.726	+0.034	E	186.3	102.0	23rd	71.7	19th	96.4	75.1	85.7	-4.0		
SOUTH BENGAL.	South Bhagulpore	South Bhagulpore	29.578	29.741	+0.054	E	106.3	98.2	23rd	72.0	19th	92.6	75.8	84.2	-3.1		
	Monghyr	Monghyr	29.541	29.737	+0.040	SSE	179.0	99.7	23rd	74.5	22nd	96.2	76.8	86.5	-3.2		
	South 24-Pergunnahs	Doomka	27.735	29.718	+0.021	South- Westerly	231.4	105.9	22nd	71.2	17th	97.6	74.9	80.3	-1.2		
	Hazaribagh	Hazaribagh	27.620	29.726	+0.022	SW, Calm	114.9	100.9	22nd, 23rd May	70.4	17th	95.4	73.6	84.5	-2.7		
CHUTIA NAAGPUR.	Lehardugga	Ranchee	28.968	29.722	+0.030	Calm	63.2	104.3	21st	73.7	17th	98.3	77.3	87.8	-4.8		
	Manbhoo	Manbhoo	29.482	29.819	+0.021	Calm & SW	—	98.6	22nd	68.4	17th	89.7	73.0	81.4	+0.8		
	Singhboom	Singhboom	29.674	29.793	+0.034	E	105.5	99.2	22nd	68.8	17th	86.1	73.4	79.7	-1.1		
	Assam	Silchar	29.702	29.809	+0.025	Calm	—	93.5	22nd	69.8	17th	89.6	73.4	81.7	-0.3		

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last 10 years. The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past 10 years. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 23rd of May 1890.

					DISTRICT OBSERVATIONS.												METEOROLOGICAL DIVISION.
Average humidity at 5 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.								Representative station.	DISTRICT.			
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
54	3.7	0.64	0.69	0.52	0.90	1.95	-1.05	0.87	0.66	+0.21	1.0	1.1	Poorce	Poorce ...	ORISSA.		
55	1.1	0.72											Gopalpore	False Point ...			
56	4.6	0.13		0.64		2.16			0.71			1.2	Cuttack	Cuttack ...			
57	0.0	0.87		0.87		3.23			1.03			1.6	Balasore	Balasore ...			
58	5.6	3.79	4.58	0.06	5.83	3.39	+2.44	5.28	0.86	+4.52	3.3	1.4	Saukor Island	South-West Midnapore South 24-Pergunnahs	SOUTH-WEST BENGAL.		
59	2.1	2.43	2.38	0.67	4.47	3.80	+0.67	4.15	0.74	+3.41	3.0	1.1	Midnapore	Midnapore ...			
60	2.3	1.87	1.67	0.71	3.20	5.97	-0.77	2.77	0.83	+1.84	3.0	1.5	Calcutta	24-Pergunnahs... Howrah Hooghly			
61	3.3	1.76	1.64	0.80	1.98	3.39	-1.41	1.65	0.97	+0.68	3.0	1.6	Burdwan	Burdwan ...			
62	2.1	2.27	1.48	0.44	1.84	2.40	-0.56	1.84	0.71	+1.13	2.8	1.1	Bankoora	Bankoora ...	SOUTH-WEST BENGAL.		
63	2.1	0.80	0.51	0.59	0.61	2.17	-1.56	0.51	0.73	-0.22	2.0	1.6	Raneegunge	Reerbhoom West Burdwan			
64	3.7	0.37	1.13	0.80	2.58	3.14	-0.56	1.85	1.03	+0.83	1.5	1.7	Berhampore	Moorsheadabad			
65	3.1	0.84	1.75	1.04	2.85	4.07	-1.22	2.14	1.24	+0.90	2.8	1.9	Krishnaghur	Nuddea			
66	4.0	0.22	1.22	0.93	3.62	4.70	-1.18	2.07	1.19	+0.88	2.1	1.7	Jessore	Jessore Khoolna	EAST BENGAL.		
67	4.9	0.15	0.30	1.65	2.16	6.88	-4.72	1.73	2.13	-0.40	1.5	1.9	Chittagong	Chittagong			
68												2.2	Demagiri	Chittagong Hill Tracts			
69	3.0	1.03	1.35	1.21	2.53	5.31	-2.78	2.22	1.52	+0.70	2.0	2.1	Barrisal	Backergunge			
70	0.9	Nil	0.10	1.51	4.19	7.55	-3.36	1.55	1.90	-0.35	0.5	2.3	Noakholly	Noakholly	EAST BENGAL.		
71	2.7	0.40	0.46	1.20	3.40	5.81	-2.41	1.23	1.54	-0.31	2.0	2.2	Furreedpore	Furreedpore			
72	4.4	0.36	0.47	0.90	4.28	6.16	-1.88	1.66	1.34	+0.32	1.8	2.0	Dacca	Dacca			
73	3.6	Nil		1.14		7.36			1.48			2.1	Commillab	Tipperah			
74	4.0	0.54	1.39	1.69	6.36	6.91	-0.55	2.59	2.17	+0.42	1.6	2.3	Mymensingh	Mymensingh	NORTH BENGAL.		
75												2.0	Bogra	Bogra			
76	1.9	0.40	0.73	1.24	4.44	4.90	-0.46	2.63	1.62	+1.01	2.0	2.3	Serajunge	Pubna			
77	0.9	1.91	0.72	1.62	3.67	3.54	+0.03	3.55	1.17	+1.38	1.3	1.7	Rampore Beaulah	Rajshahye			
78	1.7	0.22	0.35	1.12	3.33	2.99	+0.34	1.12	1.33	-0.21	1.5	1.5	Maldah	Maldah	NORTH BENGAL.		
79	1.3	0.60	0.36	1.04	4.27	3.24	+1.03	1.61	1.31	+0.30	1.2	1.2	Dinapore	Dinapore			
80	1.0	1.24	1.68	2.41	6.92	7.19	-0.27	2.47	3.35	-0.88	3.0	2.5	Rangpore	Rangpore			
81	1.7	0.03	0.60	2.30	4.98	8.17	-3.19	0.86	3.82	+2.96	2.6	3.5	Jalpigoree	Jalpigoree Joach Behar			
82	8.1	0.74	0.80	2.32	4.55	6.84	-2.29	1.58	2.74	-1.16	4.0	3.6	Darjeeling	Darjeeling Hill Tracts	NORTH BENGAL.		
83	3.7	0.40	1.05	0.87	2.85	3.00	-0.15	1.27	1.18	+0.09	2.4	1.1	Purneah	Purneah North Bhagulpore			
84	0.3	0.36	0.78	0.32	1.98	1.61	-0.37	1.16	0.50	+0.66	1.7	0.6	Mozufferpore	Mozufferpore			
85	1.3	1.28	1.05	0.41	2.18	1.80	+0.38	1.09	0.56	+0.53	2.0	0.7	Durbhunga	Durbhunga			
86	1.1	1.35	1.22	0.39	1.56	1.81	-0.25	1.22	0.57	+0.65	1.5	0.7	Motihari	Chumparun	NORTH BENGAL.		
87	0.4	0.05	Nil	0.20	0.42	1.23	-0.81	Nil	0.33	-0.33	0.0	0.5	Chupra	Sarun			
88	0.6	Nil															
89	1.7	0.31	0.08	0.50	1.26	1.27	-0.01	0.15	0.61	-0.46	0.5	0.8	Bankipore	Bankipore			
90	0.0	0.31	0.08	0.50	1.26	1.27	-0.01	0.15	0.61	-0.46	0.5	0.8	Bhagulpore	South Bhagulpore Mouchyr	SOUTH BENGAL.		
91	0.0	0.31	0.08	0.50	1.26	1.27	-0.01	0.15	0.61	-0.46	0.5	0.8	Bloomks	Sonthal Pergunnahs...			
92	4.6	0.04	0.19	0.26	0.50	1.23	-0.73	0.20	0.32	-0.12	0.6	0.6	Hazaribagh	Hazaribagh			
93	3.4	0.46	0.06	0.33	1.29	1.13	+0.16	0.81	0.51	+0.30	2.0	0.9		Lohardugga			
94		0.15	0.06	0.42	1.97	1.97	-0.00	0.37	0.86	-0.49	1.0	1.4	Ranoni	Manbhoom	SOUTH BENGAL.		
95	3.6	1.13	1.29	0.78	3.73	2.62	+1.10	2.56	1.02	+1.54	2.0	2.1	Onyebassa	Singbloom			
96	0.4	0.43											Sibsagar	Sibsagar			
97	4.1	0.60											Dhubri	Dhubri			
98	0.1	0.60											Silchar	Silchar	ASSAM.		

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal mean 17 years. The means of the district are the numerical average of the rainfall return received, in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 17th May.	Sunday, 18th May.	Monday, 19th May.	Tuesday, 20th May.	Wednesday, 21st May.	Thursday, 22nd May.	Friday, 23rd May.	Number of rainy days.	Rainfall of week.				
ORISSA	Pooree	Pooree	0.90	.....	.....	.....	.....	.....	.....	1	0.90	1.44	1.74	1.44	0.82
		Khurda	0.46	.....	.....	.....	.....	.....	1.47	1	1.47	1.93	2.43	1.93	1.03
		Banpur	.....	0.23	.....	.....	.....	.....	.....	1	0.23	0.51	1.32	0.74	0.14
		False Point	.....	.....	1.17	.....	.....	.....	.....	1	1.17	1.39	2.26	1.35	0.81
		Gop	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Cuttack	Satpara	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Pipili	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Jagatsingapore	.....	0.20	.....	.....	.....	.....	.....	.....	.....	.....	2.06	.....	0.20
		Banki	.....	.....	.....	.....	0.02	.....	0.20	2	0.22	0.83	2.34	0.22	0.37
		Cuttack	.....	.....	.....	.....	.....	.....	0.70	3	2.55	3.93	2.64	3.21	0.75
SOUTH-WEST BENGAL	Balasore	Kendrapara	1.62	.....	0.23	.....	.....	.....	.....	3	1.85	3.78	2.74	5.22	0.78
		Jajpore	.....	0.39	.....	.....	.....	.....	2.05	3	4.15	5.00	.....	.....	.....
		Dhamsala	.....	.....	.....	.....	1.71	1.20	.....	.....	.....	.....	.....	.....	.....
		Salipore	0.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Chandbali	0.64	0.25	0.26	.....	.....	0.21	0.37	5	1.13	3.11	3.24	2.31	0.70
	Midnapore	Bhuddruck	.....	0.25	0.35	.....	.....	0.20	0.10	5	1.80	2.97	3.58	2.47	1.46
		Sorah	.....	.....	0.30	.....	.....	0.20	0.20	4	2.00	3.90	3.38	3.00	1.26
		Balasore	.....	.....	0.03	.....	.....	0.54	.....	3	1.20	2.09	3.13	1.32	0.27
		Jellapore	.....	.....	1.90	.....	.....	.....	.....	.....	.....	.....	2.52	0.21	0.21
		Raripodah	.....	0.16	.....	.....	.....	0.63	.....	2	0.19	2.72	3.52	0.57	0.76
SOUTH-WEST BENGAL	24-Pergunnahs	Contai	.....	.....	1.08	.....	3.19	2.13	.....	3	6.40	6.86	3.35	4.40	0.82
		Saugor Island	.....	.....	2.08	.....	0.63	1.68	.....	3	3.79	4.48	3.31	4.40	1.08
		Tumlook	0.70	.....	1.70	.....	.....	2.40	.....	3	4.80	6.60	3.40	4.40	0.75
		Midnapore	0.32	.....	1.00	.....	0.90	.....	.....	3	2.43	3.98	4.04	3.48	0.89
		Ghattai	.....	.....	0.26	.....	0.13	0.13	.....	3	0.52	2.92	3.97	4.20	0.57
	Howrah	Kukrahaty	.....	.....	0.58	.....	0.49	1.65	.....	3	2.72	4.65	.....	.....	.....
		Garbeta	.....	.....	0.16	.....	.....	0.24	0.00	3	0.79	1.34	.....	.....	.....
		Diamond Har-bour	0.05	.....	0.70	.....	1.25	1.55	.....	4	3.55	6.14	3.61	5.05	0.70
		Canning Town	0.03	.....	0.41	.....	.....	.....	.....	2	0.24	1.53	.....	.....	.....
		Alipore Jail	0.02	.....	.....	.....	0.54	1.05	.....	3	1.59	3.29	3.68	2.78	0.70
SOUTH-WEST BENGAL	Burdwan	Barrackpore	.....	.....	0.10	.....	0.01	1.09	.....	3	1.11	3.32	3.66	2.21	0.94
		Dum-Dum	0.24	0.58	.....	.....	0.19	0.83	.....	5	1.09	2.54	4.01	2.22	0.94
		Barasat	.....	.....	1.04	.....	.....	0.76	.....	2	2.80	3.92	4.43	3.76	1.15
		Buseerhat	.....	.....	1.47	.....	.....	0.47	.....	2	1.94	4.36	4.33	4.03	1.40
		Howrah	0.27	.....	0.61	.....	0.25	1.63	.....	4	1.56	2.39	3.79	2.24	0.82
	Hooghly	Mohesra	.....	.....	.....	.....	0.60	0.50	.....	2	1.10	2.19	4.59	2.19	0.92
		Serampore	.....	.....	0.06	.....	.....	1.10	.....	2	1.16	3.53	3.57	2.26	0.66
		Hooghly	0.30	.....	1.46	.....	.....	0.77	.....	3	2.53	4.14	3.57	2.56	0.97
		Jehanabad	0.04	.....	1.47	.....	.....	0.13	0.60	4	2.39	3.55	3.48	3.46	1.01
		Culina	0.07	.....	.....	.....	0.38	1.08	.....	3	1.53	1.94	3.49	1.53	0.84
SOUTH-WEST BENGAL	Bankura	Burdwan	0.13	.....	0.19	.....	0.02	1.42	.....	4	1.76	1.97	3.15	1.78	0.99
		Cutwa	.....	.....	.....	0.30	1.33	.....	.....	2	1.63	2.05	3.33	1.63	1.09
		Raneegunge	.....	.....	.....	0.77	.....	0.63	.....	2	0.80	0.80	2.90	0.80	0.83
		Manikpur	.....	.....	.....	.....	.....	0.48	.....	1	0.48	0.48	.....	0.48	.....
		Bankura	.....	.....	0.40	.....	.....	1.51	0.36	3	2.27	2.62	2.38	2.52	0.77
	Beebhaim	Bishenpore	.....	0.22	.....	.....	.....	0.96	.....	4	2.50	2.78	3.17	2.78	0.70
		Malina	0.02	.....	0.42	.....	.....	0.11	.....	3	0.55	0.55	1.90	0.55	0.51
		Khatra	.....	.....	0.61	.....	.....	.....	.....	1	0.61	1.61	2.14	1.61	0.52
		Indas	.....	.....	0.10	.....	.....	1.62	.....	2	1.72	1.96	.....	.....	.....
		Kotalpore	.....	.....	1.90	.....	0.15	1.30	.....	3	2.45	3.20	.....	.....	.....
SOUTH-WEST BENGAL	Nuddes	Anda	.....	.....	0.40	.....	0.30	0.19	.....	3	0.80	1.80	.....	.....	.....
		Gangajalhati	.....	.....	1.71	.....	.....	0.27	.....	2	1.98	1.98	.....	.....	.....
		Raipore	.....	.....	0.95	.....	0.94	0.58	.....	3	2.47	3.05	.....	3.44	.....
		Sonamukhi	0.24	.....	.....	.....	0.18	0.05	.....	3	1.20	1.20	.....	.....	.....
		Bh. Soory	.....	.....	0.13	.....	0.13	0.03	.....	3	0.29	0.36	2.34	0.29	0.76
	Khoolna	Hetampore	.....	.....	.....	.....	0.36	.....	.....	1	0.36	0.36	1.83	0.36	0.40
		Rampore Hazi	.....	.....	0.26	.....	.....	.....	.....	2	0.58	0.90	1.83	0.58	0.81
		Boipore	.....	.....	0.77	.....	0.32	0.48	.....	3	1.57	1.57	.....	.....	.....
		Murari	.....	.....	.....	.....	0.30	.....	0.40	2	0.90	1.33	.....	0.90	.....
		Ranaghat	.....	.....	0.20	.....	0.21	1.06	.....	3	1.47	1.97	3.30	1.47	1.01
SOUTH-WEST BENGAL	Jessor	Kishnaghat	.....	.....	.....	.....	0.25	0.50	.....	2	0.84	2.48	4.06	2.48	1.11
		Choodanga	1.20	.....	0.10	.....	1.05	0.01	.....	4	2.36	3.69	4.93	2.69	1.64
		Meherpore	0.16	.....	.....	.....	0.55	.....	.....	2	0.65	1.01	2.45	0.80	0.95
		Koostha	0.14	.....	0.95	.....	.....	.....	.....	3	3.44	5.20	4.40	3.30	1.43
		Satkira	0.19	.....	0.37	.....	1.04	0.73	.....	4	2.33	4.16	4.12	3.77	0.83
	Moorshedabad	Bagirhat	.....	.....	.....	.....	0.50	.....	.....	1	0.50	1.65	4.90	0.94	1.24
		Khoolna	.....	.....	.....	.....	0.15	.....	.....	2	0.27	3.64	4.72	2.04	0.56
		Nakipore	0.07	.....	1.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Rampal	.....	0.80	.....	.....	1.50	.....	.....	2	2.30	3.14	.....	2.71	.....
		Narsil	.....	0.30	1.33	.....	1.01	.....	.....	3	3.14	5.87	5.22	4.63	1.37
EAST BENGAL	Chittagong	Jessor	.....	.....	.....	.....	0.22	.....	.....	1	0.22	4.20	5.20	1.04	1.31
		Jhenidah	.....	0.30	.....	.....	0.04	.....	.....	2	0.34	3.22	4.36	0.56	1.59
		Magorah	.....	.....	0.44	.....	1.44	.....	.....	2	1.78	4.29	5.39	2.36	0.91
		Bongong	.....	.....	0.55	.....	.....	0.51	.....	2	1.16	1.20	3.74	1.20	.....
		Kandi	.....	.....	.....	.....	0.25	0.07	.....	2	0.32	2.00	2.93	0.32	0.97
	Chittagong Hill Tracts.	Borhampore	.....	.....	0.18	.....	0.29	.....	.....	2	0.37	1.62	3.33	0.87	1.15
		Lalbagh	.....	.....	.....	.....	0.63	.....	.....	1	0.63	1.30	3.28	0.91	1.67
		Azimkunge	.....	.....	.....	.....	1.00	.....	.....	1	1.00	3.25	2.98	5.45	0.60
		Jungpore	.....	.....	.....	.....	0.54	.....	.....	1	0.54	0.81	2.57	0.81	1.75
		Jalgola	.....	.....	5.00	.....	1.15	.....	.....	1	4.15	6.17	3.51	5.77	.....
EAST BENGAL	Hackerung	Jagunna	.....	.....	.....	.....	0.88	.....	.....	1	0.88	3.54	.....	.....	.....
		Akavunaj	.....	.....	0.14	.....	1.43	.....	.....	2	1.57	2.28	.....	.....	.....
		Patkabari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.80	.....	0.40	.....
		Cox's Bazar	0.40	.....	.....	.....	0.10	.....	.....	2	0.50	2.90	7.43	2.75	2.35
		Chittagong	.....	.....	.....	.....	0.10	.....	.....	1	0.10	1.42	0.31	0.71	1.73
	Hackerung	Kutubdia	1.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Satkanya	.....	.....	1.20	.....	.....	.....	.....	1	1.20	3.70	.....	1.85	.....
		Rangamati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.30	7.11	0.88	1.48
		Rama	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.95	.....	2.67
		Patnakhally	.....	.....	.....	.....	1.05	.....	.....	1	0.05	2.85	5.50	2.85	1.49
EAST BENGAL	Hackerung	Peropore	.....	.....	1.74	.....	0.28	.....	.....	2	2.02	2.96	5.04	2.96	1.54

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 17th May.	Sunday, 18th May.	Monday, 19th May.	Tuesday, 20th May.	Wednesday, 21st May.	Thursday, 22nd May.	Friday, 23rd May.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noakhally	Gournaddi	0.50							3	2.16	3.08	?	2.82	?
		Baughal	1.11		0.79		0.26						?		?
		Noakhally								Nil	Nil	4.08	6.76	1.10	1.00
		Fenny	0.20							1	0.20	3.70	5.33	2.00	2.18
		Harishpore	0.45							1	0.45	6.75	?	1.50	?
		Ramganj		0.34						1	0.34	5.73	?	3.08	?
	Furreedpore	Madaripore			0.29					1	0.29	2.02	5.61	1.17	1.60
		Furreedpore		0.20		0.18			0.02	3	0.40	4.44	5.57	0.90	1.67
	Dacca	Goalundo	0.06				0.50			2	0.56	3.73	5.25	1.62	1.34
		Munshigunge					0.07			1	0.07	2.94	6.42	1.26	1.23
		Dacca			0.23		0.40			2	0.63	6.08	6.10	1.85	1.36
		Naraingunge			0.03		0.04			2	0.07	4.84	5.63	1.32	1.07
		Manickgunge			0.53		0.79			2	1.32	3.43	6.48	2.12	1.56
	Hill Tipperah	Joydebpore				1.13	0.54			2	1.67	6.23	?	2.51	?
		Agartala			0.21	0.53				1	0.74	5.67	7.99	1.60	1.61
		Comilla					0.07			1	0.07	3.99	6.57	1.16	1.19
		Chandpore		0.50						1	0.50	7.02	7.87	1.62	1.91
		Brahmunberia				0.31	0.04			1	0.35	6.28	?	0.74	?
		Ramchandrapore				0.47				1	0.47	6.28	?	?	?
	Mymensingh	Nasirnagar											?	?	?
		Daudkandi				0.10				1	0.10	3.50	?	1.23	?
		Kasba				0.07				1	0.07	8.39	?	0.97	?
		Laksham											?	?	?
		Kishoregunge				1.75				1	1.75	7.05	7.38	3.04	2.10
		Atia (Tangail)				0.17	0.40			2	0.57	6.53	5.04	3.4	1.09
		Mymensingh				0.80				1	0.80	6.36	7.94	1.96	2.90
		Jamulpore				0.57	1.10			2	1.67	6.59	6.40	2.29	1.77
NORTH BENGAL.	Pubna	Netrokona				1.42				2	1.72	5.26	7.77	2.20	2.48
		Subornakhali								Nil	Nil	3.85	?	2.45	?
		Durgapore					0.20		0.70	2	1.00	10.23	?	1.53	?
		Sherpore Town				1.58	0.98			2	2.56	6.32	?	2.85	?
	Dewanganj				0.60	0.39							?	?	?
													?	?	?
	Bogra	Pubna			0.26		0.84			2	1.10	2.94	4.57	1.63	1.28
		Sorajgunge				0.25	0.11			2	0.36	5.97	5.22	3.64	1.95
	Rajshahye	Sherepore					0.31			1	0.31	2.60	5.08	1.58	1.65
		Nowkhilla			0.42	1.33	0.26			3	2.01	7.45	4.26	3.11	1.07
		Bogra				0.11	0.30			2	0.41	2.52	5.59	1.60	2.07
		Panchbibi				0.76	0.10			2	0.86	4.87	4.43	2.85	1.63
	Maldah	Beaulash			1.09		0.81			2	1.9	2.53	3.71	2.32	1.37
		Natore			0.12		0.15			2	0.27	3.85	4.71	3.39	1.46
		Naogaon								Nil	Nil	4.55	2.22	2.95	0.68
		Lalpara		0.29		0.97				2	1.26	3.56	?	1.54	?
	Dinapore	Mando								Nil	Nil	1.88	?	Nil	?
		Maldah					0.22			1	0.22	3.09	2.57	1.62	0.85
		Chandahal				0.43	0.05			2	0.48	3.57	3.41	0.62	1.79
		Gajol			0.25					1	0.25	2.77	?	1.35	?
	Rungpore	Sibganj			0.56		0.33			2	0.89	5.26	?	4.38	?
		Mohadebpore								Nil	Nil	3.16	?	Nil	0.67
		Churamon				0.34				1	0.34	2.85	2.33	0.85	0.74
		Raigunge				0.15				1	0.15	3.01	4.44	1.35	1.06
	Julpigoree	Dinapore				0.33	0.31		0.11	3	0.75	6.83	4.47	3.39	2.21
		Rulohat				0.37				1	0.37	4.68	1.83	2.45	0.96
		Thakurgaon			0.51		0.76			2	1.07	7.83	?	1.34	?
		Bhawanigunge (Gyadanda)				0.10	0.80			2	0.90	7.99	5.83	1.67	2.40
	Cooch Behar	Rungpore		0.11			0.82	0.15	0.11	4	1.19	7.73	6.55	1.86	3.28
		Kurigram					0.51			3	1.45	5.65	9.07	1.91	3.66
		Bagdogra (Nilphamari)			0.75	2.90		0.42		3	3.17	6.31	7.27	4.19	4.05
		Uitpore		1.56				0.95		2	2.51	13.19	?	4.54	?
	Darjeeling Hill	Julpikore				0.07	0.81			2	0.88	4.33	7.47	0.21	3.13
		Alipore Doar					0.03			1	0.03	4.26	?	1.18	?
		Fallacotta								Nil	Nil	3.55	?	0.96	?
		Debiganj					0.50	1.04		2	1.54	7.65	?	4.95	?
	North Bhagulpore	Bhagulpore (Nayagram)			0.26		0.42	0.50	0.09	4	1.27	7.09	?	3.16	?
		Dinapore				0.05	0.46	0.63		3	1.15	5.24	8.41	1.50	4.15
		Cooch Behar				0.09		0.15		2	0.24	2.88	10.28	0.53	4.43
		Mickligunge			0.33	0.18				2	0.50	7.70	6.95	0.88	3.44
	Muzafferpore	Matabhanga			0.07	0.08	0.30		0.52	4	1.03	4.74	7.72	1.18	3.92
		Buxa		0.08		0.16	0.02		0.51	4	0.55	5.12	13.47	0.99	6.80
		Siliguri				0.58	0.16		0.15	3	0.83	5.71	4.24	2.42	1.49
		Darjeeling		0.07	0.08	0.07	0.17	0.38	0.05	6	0.80	4.21	5.63	1.55	1.52
	Purneah	Kalimpang				0.12	0.86	0.05		3	1.03	3.17	5.98	1.88	1.11
		Kurseong		0.08		0.30	0.34			3	0.72	6.80	?	3.59	?
		Kissengunge			0.25	0.24	0.10			3	0.59	3.34	3.62	0.77	1.27
		Arraresh			0.93	0.67	0.13	0.07		5	2.18	4.16	3.89	2.22	1.49
	North Bhagulpore	Purneah		0.03	0.37					2	0.40	2.65	?	1.01	1.16
		Gondwara								1	0.45	2.75	?	0.45	?
		Balarampore											?	?	?
		Mattori				3							?	?	?
	Durbhunga	Kaliaganj				0.70			0.20	2	0.90	4.27	?	0.90	?
		Maddapore			1.55					1	1.55	2.15	2.79	1.65	?
		Soopool			0.09					1	0.09	1.81	2.59	0.69	0.8
		Protaganj			0.20	0.38				2	0.58	1.08	?	0.58	?
	Muzafferpore	Tajpore			0.25		0.08			2	0.33	1.13	1.48	0.53	0.29
		Durbhunga		0.03		1.21	0.04			3	1.28	2.25	1.28	0.63	?
		Madhubani			1.55					1	1.55	3.18	2.65	1.60	0.7
		Barhara			1.80					1	1.80	2.60	?	1.80	?
	Muzafferpore	Soshara								Nil	Nil	1.70	?	Nil	?
		Sitamarhi			0.23		1.26			2	1.49	2.49	1.84	1.70	0.58
		Muzafferpore			0.10		0.34			2	0.44	0.89	1.84	0.44	0.64
		Haripur				0.11				1	0.11	2.47	1.15	1.24	0.38
	Purpur	Purpur								Nil	Nil	1.70	?	Nil	?
		Alahua								2	1.55	3.05	?	1.55	?
		Guhar			1.50		0.05			2	1.55	3.05	?	1.55	?
		Purpur			0.50		0.31			2	0.81	1.33	?	0.81	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 17th May.	Sunday, 18th May.	Monday, 19th May.	Tuesday, 20th May.	Wednesday, 21st May.	Thursday, 22nd May.	Friday, 23rd May.	Number of rainy days.	Rainfall of week.				
NORTH BHAR	Chumpran...	Motihari ...	.....	.....	1.70	.....	.....	.....	.....	1	1.70	1.70	1.70	1.70	0.03
		Bettiah ...	.....	.....	0.55	.....	0.18	.....	.....	Nil	Nil	0.73	1.40	1.91	0.50
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.12	?	Nil	?
SOUTH BHAR	Saran	Burhura ...	.....	.....	0.12	.....	.....	.....	.....	1	0.12	1.57	?	0.12	?
		Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.14	1.70	Nil	0.26
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.29	1.07	Nil	0.07
	Shahabad	Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.02	0.84	Nil	0.27
		Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.45	0.46	Nil	0.10
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.34	Nil	Nil	0.10
		Bhaboah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.78	0.78	Nil	0.22
		Sasseram ...	.....	.....	.....	.....	.....	.....	0.29	1	0.29	0.57	0.77	0.29	0.22
	Gya	Arrah ...	0.10	.....	.....	0.02	.....	.....	.....	1	0.12	0.19	0.87	0.12	0.25
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	?	?
		Aurangabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.06	Nil	0.09
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.90	1.00	Nil	0.04
		Nowdah ...	.....	.....	.....	.....	.....	0.61	.....	1	0.61	0.76	1.38	0.61	0.35
	Patna	Johannabad ...	0.01	.....	.....	.....	.....	0.30	.....	1	0.31	0.40	0.93	0.31	0.48
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	?	Nil	?
		Daudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
CENTRAL NAGPUR.	Moughyr	Pakri Barawan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Patna ...	0.06	.....	.....	0.25	.....	.....	.....	2	0.31	2.49	1.05	0.57	0.44
		Imphore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.31	0.78	Nil	0.33
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.53	Nil	0.78
		Barr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.23	1.68	Nil	0.50
	South Bhagalpore	Bickram ...	.....	.....	.....	.....	.....	.....	0.02	1	0.02	0.02	?	0.02	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Begoonerai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.58	1.56	0.41	0.73
		Monahyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.90	1.56	1.52	0.74
		Jamui ...	.....	1.20	.....	.....	.....	.....	.....	Nil	Nil	0.14	1.40	0.14	0.53
	Sonthal Pergunnahs.	Gogri ...	.....	1.17	.....	.....	.....	.....	.....	1	1.17	3.02	?	1.17	?
		Shikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Bhagalpore ...	.....	0.62	.....	.....	.....	.....	.....	1	0.62	2.91	1.73	0.77	0.77
		Banks ...	.....	0.17	.....	.....	.....	.....	.....	1	0.17	1.37	1.90	0.54	0.87
		Kalgans ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.25	?	0.55	?
CENTRAL NAGPUR.	Bongaon	Bongaon ...	.....	.....	1.10	.....	.....	.....	.....	1	1.10	2.30	?	1.10	?
		Rajmehar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.32	3.35	1.24	1.20
		Godca ...	.....	.....	.....	.....	.....	.....	.....	2	0.63	2.88	1.62	2.42	0.65
		Pakour ...	.....	0.33	.....	.....	0.30	.....	.....	2	0.63	3.06	2.12	2.42	0.75
		Nya Doemka ...	.....	.....	0.02	.....	0.30	.....	0.34	2	0.32	0.39	1.73	0.32	0.55
	Hazaribagh	Deoghar ...	.....	.....	0.38	.....	0.50	.....	.....	2	0.88	0.88	2.18	0.88	0.69
		Jamtara ...	.....	.....	1.13	.....	.....	.....	.....	1	1.13	1.34	2.41	1.13	0.96
		Mohagama ...	.....	.....	.....	.....	.....	.....	.....	1	1.13	1.25	?	Nil	?
		Namast ...	.....	.....	0.12	.....	.....	.....	.....	1	0.12	0.12	?	0.12	?
		Pachamba ...	.....	.....	0.66	.....	.....	0.30	.....	2	0.92	1.07	1.33	0.92	0.59
	Lohardugga	(Girid) ...	.....	.....	.....	.....	.....	.....	.....	1	0.04	0.31	1.17	0.11	0.38
		Hazaribagh ...	.....	.....	0.04	.....	.....	.....	.....	Nil	Nil	0.61	1.25	Nil	0.15
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.40	0.96	Nil	0.19
		Mahudi Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.25	?	Nil	?
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	1	0.10	1.00	?	0.10	?
CENTRAL NAGPUR.	Singbhoon	Chaitra ...	.....	.....	0.29	.....	.....	0.11	.....	2	0.40	1.29	?	1.29	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.80	?	0.55	?
		Namghar ...	.....	.....	.....	.....	.....	.....	.....	1	0.21	0.76	0.87	0.21	0.48
		Lohardugga ...	.....	0.26	0.37	.....	.....	.....	.....	2	0.63	1.06	1.70	1.06	0.56
		Ranchi ...	.....	0.77	0.36	.....	.....	.....	0.02	3	1.15	1.15	0.82	1.15	0.48
	Manbhoon	Nils ...	.....	0.30	0.30	.....	.....	.....	.....	2	0.60	1.40	?	1.40	?
		Bahama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Mosmetabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Gareah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil	?
		Chyebassa ...	.....	.....	0.13	.....	.....	1.07	.....	2	1.20	3.72	2.62	2.50	1.02
	Singbhoon	Chakradhar ...	.....	.....	.....	.....	.....	.....	.....	2	1.20	?	?	?	?
		Chakradhar ...	.....	0.30	.....	.....	.....	1.00	.....	2	1.30	3.30	?	2.04	?
		Chakradhar ...	.....	.....	0.31	.....	.....	0.20	.....	2	0.51	3.33	?	1.48	?
		Chakradhar ...	.....	.....	.....	.....	.....	.....	.....	1	0.33	1.46	2.67	0.71	1.17
		Gobindpore ...	.....	.....	0.04	.....	.....	.....	.....	1	0.04	0.19	1.27	0.04	0.55
CENTRAL NAGPUR.	Singbhoon	Kagunata ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.25	?	Nil	?
		port ...	.....	.....	.....	.....	.....	.....	.....	1	0.20	0.90	?	0.90	?
		Barrabhoon ...	.....	.....	.....	.....	.....	.....	0.20	1	0.20	0.90	?	0.90	?
		Jhalde ...	.....	0.22	.....	.....	.....	.....	.....	1	0.52	1.32	?	0.52	?
		Onag ...	.....	.....	0.08	.....	.....	0.41	.....	2	0.44	0.94	?	0.44	?

Explanation.—..... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 27th May, 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
23RD OF MAY 1890.

WEATHER during the week has been very uniform in character, pressure distribution remaining practically unchanged, while easterly winds have been very prevalent except in Orissa and Chutia Nagpur, and scattered or general rainfall in all districts every day of the week. The rainfall in East and North Bengal at this season is much heavier than at the commencement of May, from the irregular incursion of moist winds from the east, when the monsoon may be said to have commenced. But generally these conditions do not extend as far as the western districts. During the past week the almost constant east winds have brought a larger proportion of these moist masses of air and very showery weather has been general in South-West Bengal and Orissa, while in North and East Bengal considerably less rain has fallen than in an average year. The rainfall and changes of temperature have been irregular, the latter depending on the former; but pressure has hardly changed, and light winds have been blowing throughout the week. The usual distribution of pressure has been as follows:—low pressure over Chutia Nagpur and sometimes over Orissa and the head of the Bay, and the highest pressure in North or East Bengal, so that isobars have been running north and south or from north-west to south-east, the easterly winds being due to this arrangement, and therefore the rainfall also. As the winds became less easterly the rainfall seemed to diminish, and there was a very marked difference on alternate days at the beginning of the week. On Saturday and Monday, with the gradients running from north-west to south-east and strongly easterly winds, showers were much more general than on Sunday and Tuesday, when the gradients were from north to south and the easterly circulation not so marked. On Wednesday the weather was more unsettled, and almost general rain fell in all districts, while on Thursday pressure was low over Behar, and normal conditions were beginning to appear; but from the irregular winds still blowing in Lower Bengal on that day, a few scattered showers continued to fall. On Friday ordinary weather prevailed, and a few showers fell in North Bengal only.

Pressure—Continued uniformly above the normal by amounts varying up to seven-hundredths of an inch till the last two days of the week, when excess was almost everywhere below a twentieth of an inch. The means for the week are, therefore, all above the normal by about a twentieth of an inch in North Behar and two to three-hundredths of an inch in all other districts. Pressure changes have almost without exception been under a twentieth of an inch, the only case where this has been exceeded being the fall of .07 inch in the north-west corner of the Bay on Wednesday.

Temperature—Has generally been below the normal, and variations have been large and irregular owing to the variable character of the rainfall. At the commencement of the week there was defect of six or seven degrees in the centre of Bengal and of under five degrees in the outer districts, and this defect has continued in the western districts, but in the east and north occasionally high temperature has occurred as rainfall decreased in amount. The means are all below the normal, very slightly in Assam, by about 1° in East Bengal and Orissa, by 2° in North Bengal, South Behar, and Chutia Nagpur, and by nearly 3° in South-West Bengal and North Behar. These means shew how irregular the temperature distribution has been, as even after the smoothing process great diversity remains.

Rainfall—Has been nearly an inch in excess in Orissa and South-West Bengal, as much in defect in East and North Bengal, a third of an inch above the normal in North Behar, slightly below in South Behar, and normal in Chutia Nagpur. Some heavy falls are reported from the Midnapore district, the heaviest being 6.4 inches at Contai and 4.8 inches at Tumlook; the heaviest in South-West Bengal 4.1 inches at Lalgola in the Moorshedabad district and over 3 inches in Nuddea and Jessore. In East and North Bengal the showers were very scattered, and falls are rarely over 2 inches. In North Behar general rain fell on Monday and scattered showers on the two following days, but for the rest of the week practically no rain fell there, as in South Behar for the whole week. Showers were most numerous in Chutia Nagpur on Monday and Thursday, but only three stations—one in Lohardugga and the other two in Singbhoom—received more than one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 23rd of May 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	105.9	72.1	93.0	78.8	85.9	-1.2	1.40	0.70	+0.70	2.7	1.3	+1.4	2.40	2.53	1.82	0.83
South-West Bengal ...	102.1	67.6	95.1	76.0	85.6	-2.8	1.60	0.75	+0.91	2.5	1.0	+0.9	2.97	3.62	2.37	0.96
East Bengal	94.2	69.6	89.5	78.8	82.7	-1.0	0.68	1.30	-0.62	1.5	2.1	-0.6	4.24	6.55	1.81	1.71
North Bengal	97.7	66.1	89.5	73.5	81.5	-2.0	0.78	1.69	-0.91	2.0	2.2	-0.2	4.71	5.26	1.87	2.19
North Behar	100.3	68.8	93.4	74.5	83.4	-2.7	0.83	0.50	+0.33	1.6	0.8	+0.8	1.94	2.06	0.97	0.71
South Behar	107.4	71.7	99.1	78.2	88.6	-2.1	0.32	0.52	-0.20	0.8	0.8	0	1.23	1.45	0.40	0.63
Chutia Nagpur	102.0*	70.4*	96.3*	74.3*	85.4*	-2.0*	0.41	0.46	+0.05	1.2	1.1	+0.1	1.21	1.46	0.62	0.53
Assam	93.6	68.4	88.5	73.3	80.9	-0.2										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 27th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 18th to 24th May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	"	"	"	"	"	"	Inches.	"	%	Inches.
May 1890 ...	18th ...	29.747	87.4	95.5	16.2	79.3	89.6	80.7	.928	77.0	66	...
" " ...	19th ...	.770	85.8	97.0	22.4	74.6	88.4	78.5	.842	74.0	63	0.02
" " ...	20th ...	.745	88.9	97.8	18.0	79.8	92.4	82.0	.953	77.8	62	...
" " ...	21st ...	.720	85.8	96.0	20.4	75.6	88.6	82.5	1.030	80.1	77	0.46
" " ...	22nd ...	.738	83.7	95.0	22.7	72.3	87.1	78.5	.860	74.7	63	0.96
" " ...	23rd ...	.738	88.3	97.0	17.4	79.6	91.0	83.1	1.027	80.0	70	...
" " ...	24th ...	.691	88.3	96.3	16.0	80.3	92.1	83.5	1.032	80.2	69	...

The mean 10 A.M. pressure of the seven days ...	Inches.	29.736
The mean temperature of the seven days ...	°	86.9
The extreme variation of temperature ...	°	25.5
The maximum temperature ...	°	97.8
The mean 10 A.M. relative humidity of the seven days ...	%	68
The total fall of rain from 18th to 24th May 1890 ...	Inches.	1.44
The daily mean temperatures are the crude means of maximum and minimum temperatures.		

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 26th May 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
18th to 24th May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
May	18th	160.8	9.7	29.692	84.6	93.5	15.2	78.3	78.2	0.884	75.5	75	SE by S, SSW and variable.	183	0.02	Partially cloudy, o, g, d, t, <.
"	19th	147.5	11.0	29.686	85.8	95.7	21.9	73.8	77.3	0.827	73.5	68	ENE and variable ...	82	Nil	Partially cloudy.
"	20th	148.9	10.0	29.683	86.3	96.5	17.4	79.1	79.8	0.932	77.1	76	SSW, S and variable.	163	0.18	Partially cloudy, o, t, <, p.
"	21st	148.8	9.6	29.684	85.2	95.1	20.8	74.3	79.1	0.918	76.6	77	SW, SSE and variable.	118	1.02	Chiefly cloudy, o, g, t, <, p.
"	22nd	149.1	10.3	29.673	84.8	94.1	23.3	70.8	78.3	0.886	75.6	74	S, SSW and variable	149	0.47	Chiefly cloudy, p.
"	23rd	142.5	10.0	29.669	87.3	95.2	16.5	78.7	81.5	1.060	79.2	78	SE by S and SSW ...	102	Nil	Partially cloudy, p.
"	24th	149.4	10.2	29.627	86.9	94.0	14.5	79.5	80.6	0.963	78.1	76	SSW and variable ...	188	0.18	Partially cloudy, o, g, p, t, <, p.

The mean pressure of the seven days ...	29.673
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29.647
Inches.	
The total number of hours of bright sunshine ...	70.8
The maximum possible number of hours of sunshine ...	92.8
Hours	
The mean temperature of the seven days ...	85.8
The average temperature of the corresponding period for 24 years, S.-G.'s Office	86.9
The extreme variation of temperature ...	25.7
The maximum temperature ...	96.5
°	
Miles.	
The highest velocity of the wind in one hour ...	17
lbs.	
The highest pressure of wind on one square foot ...	Approximately 8
%	
The mean relative humidity ...	75
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	73
Inches.	
The total fall of rain from 18th to 24th May 1890 ...	1.87
The average fall of the corresponding period for 24 years, S.-G.'s Office	0.77
The total fall from 1st January to 24th May 1890 ...	6.34
The average fall of the corresponding period for 24 years, S.-G.'s Office	8.00

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, < lightning, p passing temporary showers, Δ dew.

In the weekly report from 4th to 10th May 1890 read 75.3 for 70.3 as dew point of the 10th May 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 62th May 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 10th May 1890.

BIRTHS.

BIRTHS registered during the week ending with Saturday, the 10th May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 15·3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is lower than the average rate of the corresponding week of the past five years by 3·3, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	24·2	16·5	16·2	17·2	19·1	18·6	15·3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	19th April 1890.	26th April 1890.	3rd May 1890.	10th May 1890.		19th April 1890.	26th April 1890.	3rd May 1890.	10th May 1890.
Burdwan	30·5	22·9	9·2	18·3	Narainganj	41·4	24·8	26·7	24·8
Midnapore	15·5	17·0	12·4	6·2	Chittagong	2·3	11·7	9·8	16·4
Hughli and Chinsurah	21·6	34·5	23·0	24·6	Comillah	11·6	30·8	42·4	50·1
Serampore	37·3	9·8	13·7	19·6	Patna City	7·8	6·2	8·5	7·5
Utterpara	18·9	9·4	9·4	18·9	Gya	15·7	21·9	13·3	14·3
Howrah	17·8	13·2	17·8	15·3	Arrah	14·4	10·8	14·4	10·8
Bah	10·5	7·0	21·1	7·0	Mosufferpore	15·4	10·9	10·9	15·8
Kishnagar	22·7	3·8	22·7	17·0	Durbhanga	21·2	21·2	16·5	31·5
Ranaghat	24·0	12·0	6·0	...	Chupra	9·1	22·1	14·1	5·0
Santipore	3·5	7·0	15·8	17·5	Bhagulpore	21·7	13·1	19·9	14·5
Jessore	18·4	6·1	...	18·4	Monghyr	25·3	19·0	17·2	9·9
Rampore Beaulah	31·5	24·2	21·9	51·3	Purneah	24·2	38·1	34·6	24·2
Darjiling	14·8	7·4	14·8	44·2	Poori	21·0	18·9	16·8	18·9
Dacca	15·6	23·4	6·8	15·6					

It will be seen that last week the highest birth-rate was returned from Comillah (50·1) and the lowest from Chupra (5·0). No births were registered during the week in Ranaghat town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 26·9 per 1,000 of the population. The rate of the week is by 4·9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	29·8	29·4	21·3	17·0	21·8	22·0	26·9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	19th April 1890.	26th April 1890.	3rd May 1890.	10th May 1890.		19th April 1890.	26th April 1890.	3rd May 1890.	10th May 1890.
Burdwan	29·0	22·9	21·4	24·4	Narainganj	12·4	8·3	16·6	12·4
Midnapore	20·1	13·9	17·9	32·5	Chittagong	9·4	21·1	2·3	7·0
Hughli and Chinsurah	55·8	54·2	65·6	47·6	Comillah	11·6	11·6	19·3	23·1
Serampore	47·1	40·1	31·4	43·2	Patna City	20·6	40·6	26·3	32·5
Utterpara	...	47·2	47·2	9·4	Gya	44·4	34·2	33·8	31·4
Howrah	30·9	13·5	17·2	15·5	Arrah	28·7	23·5	25·1	9·6
Bah	21·7	10·5	31·6	10·5	Mosufferpore	18·3	19·5	21·9	24·3
Kishnagar	11·4	7·6	12·1	3·8	Durbhanga	28·3	24·4	28·3	54·3
Ranaghat	6·0	...	47·9	18·0	Chupra	9·1	22·1	20·1	11·1
Santipore	3·5	5·3	8·8	3·5	Bhagulpore	20·9	34·4	46·2	38·9
Jessore	42·8	18·4	24·5	24·5	Monghyr	28·9	37·1	32·5	19·0
Rampore Beaulah	36·8	30·8	18·4	28·9	Purneah	34·6	31·3	27·7	27·7
Darjiling	50·3	163·7	118·6	88·9	Poori	58·7	44·1	35·7	44·1
Dacca	15·6	26·3	17·5	24·0					

It will be seen that last week the highest mortality occurred in the town of Darjiling (88·9) and the lowest in Santipore (3·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Patna City	... 18·2	Darjiling	... 74·1	Poori	... 21·0
Bhagulpore	... 13·6	Durbhanga	... 34·6	Midnapore	... 13·9
Hughli and Chinsurah	... 11·5	Hughli and Chinsurah	29·5	Serampore	... 13·7
Durbhanga	... 7·9	Rampore Beaulah	... 21·0	Gya	... 12·3
Howrah	... 4·0	Purneah	... 20·8	Bhagulpore	... 11·7

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5·4 from cholera, against 4·9 per 1,000 in the preceding week; 11·9 from fever, against 12·4; 2·3 from bowel-complaints, against 1·9; 2 from injury, against 4; 6·4 from other causes, against 5·9 in the preceding week; and 7 from small-pox, against 1·2. The mortality from small-pox is noticeably severe in the Patna City, there being six deaths (1·9 per 1,000 of population).

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 29·9	Christians	... 7·5	Under 1 year	... 196·7
Females	... 23·6	Hindus	... 28·0	1 and under 5 years	... 40·3
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	... 126	Mahomedans	... 24·4	5 " 10 "	... 13·7
		Budhists	... 25·7	10 " 15 "	... 10·3
		Other classes	... 76·8	15 " 20 "	... 23·8
				20 " 30 "	... 19·5
				30 " 40 "	... 17·2
				40 " 50 "	... 20·8
				50 " 60 "	... 29·5
				60 years and upwards	... 61·4

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 26th May 1890.

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO—										Age.									
		Class.					DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.									
		RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.
Bardwan	Bardwan	12	4	...	...	...	...	...	...	...	...	383.9	...	...	20.7	19.8	6.6	30.2	55.3	21.2	...
Midnapore	Midnapore	18	3	...	...	...	...	...	...	...	...	70.0	110.5	13.9	...	...	35.4	18.8	27.9	25.2	113.7
Hachy	Hachy and Chinsurah	24	6	...	...	...	...	...	...	...	...	823.8	95.7	18.0	...	124.3	25.1	55.4	12.5	20.0	100.3
Serampore	Serampore	20	2	...	...	...	...	...	...	...	...	140.5	115.2	22.7	...	...	19.3	20.9	30.3	162.9	...
Howrah	Howrah	19	7	...	...	...	...	...	...	...	...	161.3	9.4	...	...	...	18.3	13.5	4.4	18.9	55.5
Nudda	Nudda	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jessore	Jessore	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Raishalye	Raishalye	9	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Darjiling	Darjiling	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	Dacca	29	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittagong	Chittagong	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tipperah	Tipperah	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Patna	Patna	72	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gya	Gya	37	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shahabad	Shahabad	6	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mounseerpoore	Mounseerpoore	11	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Durbhanga	Durbhanga	51	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saran	Saran	6	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bhagulpore	Bhagulpore	34	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr	Monghyr	14	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Purneah	Purneah	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poori	Poori	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL	TOTAL	1	408	138	1	1	7.5	28.0	34.4	25.7	76.8	96	72	29	19	37	70	58	50	44	65

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 26th May 1890.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 24th May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 24TH MAY 1890.			WEEK ENDING SATURDAY, THE 25TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	221	53,300	712	211	54,500	760
Jute	24	11,800	220	9	4,325	51
Firewood	97	53,200	743	114	65,100	951
Other articles	828	2,60,020	3,553	666	2,25,080	3,326
Total	1,170	3,78,320	5,228	990	3,49,005	5,098

Eastern Bengal State Railway.

*Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of
February 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	16,404	3,487	15,506	5,780	19,801	18,896	905	.....
Cotton, raw	139	1,100	.....	502	1,236	502	734	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,735	86	2,415	199	2,791	2,617	174	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
1.—Rice	2,050	3,508	2,061	2,073	6,174	4,137	2,037	.....
2.—Others	985	10,784	633	7,258	11,769	7,894	3,875	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	7	708	39	646	715	685	30	.....
b.—Undressed								
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	2,904	.....	1,545	2,904	1,645	1,319	.....
b.—Unscrewed	1	9,066	27	5,225	9,067	5,558	3,515	.....
2.—Gunny-bags and cloth	254	964	165	834	1,218	1,000	218	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	1,659	195	1,294	211	1,852	1,505	347	.....
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
1.—Kerosine	464	1	247	15	445	262	183	.....
2.—Others	258	53	115	46	341	161	180	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	139	2,390	23	3,688	2,538	3,715	.....	1,176
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
1.—Betelnuts	156	1,000	132	74	1,136	206	930	.....
2.—Others	635	406	577	504	1,041	1,081	.....	40
Railway plant and rolling-stock	2,351	1,457	2,314	1,827	3,808	5,141	.....	1,333
Salt	3,785	6	2,464	18	5,791	2,482	1,309	.....
Sugar—								
1.—Drained	1,301	990	1,128	1,688	2,121	2,816	.....	695
2.—Undrained								
Tee—								
1.—Foreign		52	4	29	52	33	19	.....
2.—Indian								
Wood—								
1.—Timber	82	132	65	193	214	258	.....	44
2.—Firewood	1,640	.....	1,845	.....	1,640	1,845	.....	205
Tobacco	45	959	25	820	1,901	885	1,116	.....
All other articles of merchandise—								
1.—Unmanufactured	4,535	1,592	4,635	1,992	6,128	6,627	.....	499
2.—Manufactured								
Hay, straw, and wool (C. & S.-E. Section)	779	.....	1,029	.....	779	1,029	.....	250
Total	40,925	41,807	37,765	35,510	82,733	70,975	11,758	4,244

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of February 1890.

INCREASES.							Tons.
Coal	...	...	...	...	...	...	995
For railway and flotilla consumption.	...	...	...	...	...	...	...
Cotton, raw	...	...	...	...	...	...	734
Principally in booking from Armenian Ghât, also from Narayangunge.	...	...	...	...	...	...	...
Rice	...	...	...	...	...	...	2,037
The Northern Section contributed 1,500 tons of this increase and the Southern Section the remainder.	...	...	...	...	...	...	...
Jute, screwed	...	...	...	...	...	...	1,319
Kawraid, Damani, and Saidpur were the principal stations despatching screwed jute during the month.	...	...	...	...	...	...	...
Jute, unscrewed	...	...	...	...	...	...	3,515
Damoodia and Goalundo show the largest increase, but there were small increases from all the principal jute-booking stations on the system.	...	...	...	...	...	...	...
Betel-nuts	...	...	...	...	...	...	930
Principally from B. C. F. stations.	...	...	...	...	...	...	...
Salt	...	...	...	...	...	...	1,309
The increase is almost exclusively in booking from Chitpore.	...	...	...	...	...	...	...
DECREASES.							
Oil-seeds	...	...	...	...	...	...	1,178
Due to unfavorable crop in the district.	...	...	...	...	...	...	...
Railway plant, &c.	...	...	...	...	...	...	1,333
Due to completion of works on the Behar Section.	...	...	...	...	...	...	...
Sugar	...	...	...	...	...	...	695
Falling off in despatches from Chooodanga, Munshigunj, Halsa; also in receipts from B. C. Railway.	...	...	...	...	...	...	...

CALCUTTA, the 12th May 1890.

F. P. QUINLAN,
Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	265,428	2,02,333 4 0	20,37,705 10	6,24,305 4 0	20,780 13 0	9,07,509 5 0	65,664	100,952½	166,616½
Or per mile of railway ...	...	171 15 5	...	409 4 11	13 9 11	594 14 3	...	...	...
For previous 19 weeks of half-year ...	4,935,351	54,70,784 8 0	5,00,67,576 10	1,17,34,612 15 3	3,82,031 1 9	1,75,87,428 9 0	1,246,668½	1,834,984½	3,081,653½
Total for 20 weeks ...	5,200,779	57,33,117 12 0	5,27,05,281 20	1,23,59,068 3 3	4,02,811 14 9	1,84,94,957 14 0	1,312,332½	1,935,936½	3,248,269
COMPARISON.									
Total for corresponding week of previous year ...	274,332½	2,47,515 5 0	31,60,605 30	7,33,912 11 3	25,712 1 6	10,67,143 1 9	63,766	112,770	176,536
Per mile of railway corresponding week of previous year ...	...	162 4 1	...	481 1 6	16 13 8	660 3 3	...	...	...
Total to corresponding date of previous year ...	5,361,218½	59,03,458 2 0	5,65,74,632 0	1,24,48,569 14 10	3,41,545 6 3	1,87,53,573 7 1	1,316,461	1,970,615	3,287,076

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16th MAY 1889.			RECEIPTS FOR WEEK ENDING 17th MAY 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 15th MAY 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 17th MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	10,07,143	600	1,525½	9,07,509	595	1,525½	66,37,600	621	1,525½	63,26,350	592	...	3,01,340

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,305	6,333 11 0	43,012 0	2,930 1 0	54 0 0	9,337 12 0	1,512	882	2,394
Or per mile of railway ...	233½	110 11 8	787 0	51 8 2	0 15 1	163 3 11	.....	.....	.....
For previous 19 weeks of half-year ...	*264,042	*1,30,255 14 0	19,40,201 0	161,725 14 0	1767 4 0	1,98,749 0 0	31,520½	13,078	45,408½
Total for 20 weeks ...	277,347	1,42,589 9 0	9,94,213 0	64,675 15 0	821 4 0	2,08,080 12 0	33,032½	14,800	47,832½
COMPARISON.									
Total for corresponding week of previous year ...	12,307	5,437 3 6	51,248 20	3,023 7 0	27 1 6	8,486 12 0	1,571	940	2,511
Per mile of railway corresponding week of previous year ...	217	95 0 11	896 0	52 13 3	0 7 7	148 5 11	.....	.....	.....
Total to corresponding date of previous year ...	284,495½	1,51,550 13 10	8,67,801 0	50,995 3 0	1,483 8 0	2,04,029 8 10	35,557	14,630	50,186

* Added No. of passengers 8,008 and Rs. 7,079 0 0 }
 † Ditto Mds. 14,812 " 901 0 0 } on account of differences between the approximate and audited returns to week ended 29th March 1890.
 ‡ Ditto " 25 0 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MAY 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.		
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.	Rs.	Rs.
7½	8,487	148	57½	9,338	163	57½	66,435	57½	*70,436	198	13,021

* Added Rs. 7,997 on account of difference between the approximate and audited returns to week ended 29th March 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,660	5,085 14 0	9,743 20	313 14 0	7 9 8	5,408 5 0	900	68	968
Or per mile of railway ...	.....	228 10 0	.....	14 1 8	0 5 5	243 1 1	.....	.....	.....
For previous 19 weeks of half-year ...	*429,532	*1,14,704 3 0	12,96,974 10	19,419 14 0	1183 1 0	1,24,369 2 0	16,855	2,789	19,644
Total for 20 weeks ...	449,212	1,19,931 1 0	5,06,717 30	9,733 12 0	192 10 0	1,29,777 7 0	17,755	2,148	19,903
COMPARISON.									
Total for corresponding week of previous year ...	29,335½	4,964 3 7	7,859 10	284 0 6	19 1 3	5,267 4 10	912	56	968
Per mile of railway corresponding week of previous year ...	.....	223 1 9	.....	12 12 3	0 15 9	236 11 9	.....	.....	.....
Total to corresponding date of previous year ...	465,400	1,22,510 12 7	1,92,506 10	6,938 14 0	156 13 9	1,29,006 8 4	18,430	1,216	19,646

* Added number of passengers 5,518 and Rs. 1,483 }
 † Ditto maunds 25,044 " 236 8 } on account of differences between the approximate and audited returns to week ended 29th March 1890.
 ‡ Deducted " 8 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MAY 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.		
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.	Rs.	Rs.
22½	5,267	237	22½	5,408	243	22½	45,441	22½	*48,514	312	73

* Added Rs. 1,711 on account of difference between the approximate and audited figures to week ended 29th March 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 10th May 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	198,750	77,520 0 0	5,21,710 0	90,740 0 0	17,380 0 0	1,85,640 0 0	22,581	27,027	49,608
Or per mile of railway...	266	104 0 0	698 0	121 0 0	23 0 0	227 0 0	.....	.....	.....
For previous 13 weeks of half-year...	2,937,320	14,02,347 0 0	1,01,90,180 0	18,78,426 0 0	3,53,280 0 0	*36,31,053 0 0	405,979	531,542	937,521
Total for 19 weeks...	3,136,050	14,79,867 0 0	1,09,11,890 0	19,69,166 0 0	3,70,560 0 0	38,19,603 0 0	428,960	559,469	988,429
COMPARISON.									
Total for corresponding week of previous year...	140,169	60,276 0 0	5,43,651 0	85,980 0 0	237,212 0 0	1,83,468 0 0	21,460	24,287	45,743
Per mile of railway corresponding period of previous year...	208	80 0 0	808 0	128 0 0	137 0 0	254 0 0	.....	.....	.....
Total to corresponding date of previous year...	2,846,028	14,15,436 0 0	95,27,309 0	15,89,038 0 0	3,53,094 0 0	33,57,568 0 0	408,323	459,623	867,941

* Audited up to week ending 15th March 1890.

† Excluding steamer earnings.

‡ Includes Rs. 21,722, profits of workshops.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
656	Rs. 1,83,468	Rs. 273	747	Rs. 1,85,610	Rs. 249	673	Rs. 9,52,000	Rs. 236	747	Rs. 10,55,978	Rs. 236	Rs. 1,06,918	Rs.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	32,420	9,030 0 0	49,990 0	3,410 0 0	50 0 0	12,490 0 0	3,735	1,937	5,672
Or per mile of railway...	259	72 0 0	310 0	27 0 0	1 0 0	100 0 0	.....	.....	.....
For previous 13 weeks of half-year...	503,194	1,73,114 0 0	9,61,247 0	55,422 0 0	1,198 0 0	*1,29,734 0 0	65,657	34,238	99,895
Total for 19 weeks...	535,614	1,82,144 0 0	10,11,237 0	58,832 0 0	1,248 0 0	2,42,224 0 0	69,372	36,175	105,547
COMPARISON.									
Total for corresponding week of previous year...	29,294	9,800 0 0	57,744 0	3,974 0 0	50 0 0	13,833 0 0	3,681	1,991	5,672
Per mile of railway corresponding period of previous year...	234	78 0 0	462 0	32 0 0	1 0 0	111 0 0	.....	.....	.....
Total to corresponding date of previous year...	549,149	1,88,928 0 0	10,80,011 0	61,933 0 0	4,739 0 0	2,55,690 0 0	69,727	36,676	106,403

* Audited up to week ending 15th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
125	Rs. 13,833	Rs. 111	125	Rs. 12,490	Rs. 100	125	Rs. 77,859	Rs. 104	125	Rs. 71,316	Rs. 96	Rs.	Rs. 6,543

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,360	4,540 0 0	15,830 0	1,410 0 0	120 0 0	6,070 0 0	2,414	600	3,104
Or per mile of railway ...	166	53 0 0	184 0	16 0 0	2 0 0	71 0 0	.....	.....	.....
For previous 18 weeks of half-year ...	308,150	1,04,837 0 0	4,49,500 0	42,888 0 0	2,944 0 0	*1,50,600 0 0	43,513	12,800	56,323
Total for 19 weeks ...	322,450	1,09,377 0 0	4,65,330 0	44,298 0 0	3,064 0 0	1,56,738 0 0	45,927	13,400	59,426
COMPARISON.									
Total for corresponding period of previous year ...	13,513	4,279 0 0	19,110 0	769 0 0	134 0 0	5,182 0 0	2,466	1,042	3,508
Per mile of railway corresponding period of previous year ...	157	50 0 0	222 0	9 0 0	1 0 0	60 0 0	.....	.....	.....
Total to corresponding date of previous year ...	298,455	99,988 0 0	2,50,934 0	18,478 0 0	3,142 0 0	1,12,608 0 0	46,541	14,600	61,141

* Audited up to week ending 15th March 1890

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,182	60	86	6,070	71	86	29,951	53	86	41,160	80	11,149	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	41,027	15,910 0 0	2,27,583 0	27,639 0 0	2,749 0 0	45,630 0 0	4,923	8,640	13,563
Or per mile of railway ...	150	58 0 0	834 0	101 0 0	3 0 0	169 0 0*	.....	.....	.....
For previous 18 weeks of half-year ...	885,901	3,05,906 0 0	47,96,797 0	5,50,760 0 0	29,322 0 0	9,70,018 0 0	96,188	179,100	275,288
Total for 19 weeks ...	926,928	3,21,816 0 0	49,24,580 0	5,78,390 0 0	32,101 0 0	10,01,707 0 0	1,01,111	187,826	388,947
COMPARISON.									
Total for corresponding week of previous year ...	47,207	17,251 0 0	2,59,197 0	31,051 0 0	9,201 0 0	45,203 0 0	4,915	8,950	13,865
Per mile of railway corresponding week of previous year ...	174	63 0 0	946 0	77 0 0	20 0 0	166 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	860,682	3,24,304 0 0	28,68,580 0	2,96,794 0 0	74,969 0 0	6,96,067 0 0	105,386	111,599	216,985

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 15TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	48,360	177	273	45,630	167	273	2,73,683	143	273	3,22,498	160	43,800	.....



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JUNE 4, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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PROPOSED INTERNATIONAL AGRICULTURAL CONGRESS IN VIENNA

The 2nd June, 1890.—The following correspondence is published for general information.

REVENUE DEPT.—*Mrs. F.*;

CALCUTTA,

The 2nd June, 1890.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Circular No. $\frac{3}{5-7}$ M & Ex., dated Simla, the 15th May, 1890.

From—J. W. P. MUIR-MACKENZIE, Esq., c.s., Under-Secretary to the Govt. of India, Revenue and Agricultural Dept.,

To—The Secretary to the Government of Bengal.

In continuation of the circular from this Department No. 49C of the 19th December last, I am directed to forward, for the information of His Honor the Lieutenant-Governor of Bengal, a copy of a letter No. 311 of the 31st March, 1890, from the Imperial and Royal Austro-Hungarian Consul-General, Bombay, regarding a proposal to hold an International Agricultural Congress during the first week of September next, in connection with the Agricultural Exhibition to be held in Vienna in the course of this year.

2. I am to request that due publicity may be given to the information contained in the Consul-General's letter.

No. 311, dated Bombay, the 31st March, 1890.

From—F. STOCKINGER, Esq., Imperial and Royal Austro-Hungarian Consul-General, Bombay,

To—The Secretary to the Government of India, Foreign Department.

WITH reference to my letter dated the 31st August, 1889, No. 990, I am directed to inform you that in connection with the Agricultural Exhibition to be held in Vienna in the course of this year, it is proposed to hold also an International Agricultural Congress during the first days of September next.

Persons intending to be present at the Congress should give notice of their intention, and eventually also of the subject which they propose to lay before the Congress, during the month of April, 1890.

Before and after the Congress, General Assemblies will be held in which reports will be presented and speeches made, but no debates will take place. At the second general meeting the resolutions passed by the various sections will also be published.

The debates will be held in the German or French language.

The Congress will be divided into the following sections:—

I.—AGRICULTURE.

1. Agricultural management: agriculture, domestic animals, management of fields, veterinary subjects, &c.
2. Special branches of agriculture: culture of fruit, wine, vegetables, tobacco, hop, hemp, silk-worms, bees, breeding of fish, &c.
3. Agricultural engineering: organization of the service, draining and irrigation, regulating of rivers, canals, reservoirs, cisterns, conduits, marshes, division of land, buildings, means of transport, the use of waste-stuff, &c.
4. Agricultural industry: the manufacture of sugar, brewing mills, dairy-farming, &c.
5. Agricultural education and agronomic researches.

II.—FORESTRY.

6. Management of forests: generally wood-and-timber-trade, forest engineering, recent researches and experiences, &c.

III.—AGRICULTURE AND FORESTRY.

7. Political economy: agrarian legislation and policy, statistics, societies, insurance, agricultural banks, protection of birds, &c.

Intending members are requested to send after the 1st of July next 10 florins or 25 francs (£1) to the Committee of the Agricultural Congress in Vienna (1 Herrengasse 13) when they will receive their tickets as members and also a special programme of the proceedings.

Special reductions on the Austro-Hungarian Railways will be granted to members, as also a season ticket for the Agricultural Exhibition. They will also be admitted to the fêtes given on the occasion and to the excursions to different large estates which will be made after the Congress.

The above-named Committee will also be glad to give all further information on the subject.

I have the honour to request you to bring the foregoing information to the notice of the respective Indian authorities as soon as possible.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 31st May, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
Western Districts.			
BURDWAN DIV.	1 Burdwan May 31, '90	0.99	Weather—hot; occasional rain. Ploughing going on. <i>Aus</i> and <i>amun</i> are being sown. Sugarcane and <i>til</i> doing fairly well. Prices of common rice:—
	Culina ...	1.12	
	Cutwa ...	1.44	
	Ranigunge ...	1.68	
			Srs. Burdwan ... 18 Culina ... 14 Cutwa ... 14½ Ranigunge ... 16 } per rupee.
	2 Bankura „ 31, '90	2.09	Weather—seasonable. Ploughing and sowing of rice going on everywhere. Indigo and sugarcane plants thriving. It is estimated that the whole of the area under sugarcane has been cultivated with it this year in the Bisenpore subdivision. Common rice selling at 19 seers per rupee at Sudder and 18 seers at Bisenpore.
	3 Birbhum „ 31, '90	0.80	Weather—hot. Ploughing in progress. Planting of sugarcane nearly finished.
	Rampore Haut ...	1.88	Coarse rice selling at from 16 to 20 seers per rupee.
	4 Midnapur „ 31, '90	1.88	Weather—cloudy. Frequent rain and storms. Preparation of all lands going on briskly. Indigo doing well. Local stocks of grain ample. Prices of common rice:—
	Contai ...	3.04	
			Srs. Ch. Sudder ... 18 0 Contai ... 20 0 Tumlook ... 13 14 Ghatal ... 14 8 } per rupee.
	5 Hooghly „ 31, '90	1.43	Weather—cool for the time of year. The rain has improved jute and sugarcane, and has been favourable for ploughing and sowing early rice. Prices of common rice:—
	Serampore ...	3.01	
	Jehanabad ...	2.25	
			Srs. Sudder ... 13 or 14 Serampore ... 16 Jehanabad ... 16 } per rupee.
	Howrah „ 31, '90	0.77	Weather—hot; occasional showers. Crops doing well and agricultural operations in progress in the Uluberia subdivision. More rain wanted elsewhere.
	Uluberia ...	3.37	Prices of common rice 14 to 15 seers per rupee.
PRESIDENCY DIV.	6 24-Pergas. May 31, '90	1.41	Weather—very hot. Sowing of early rice and jute finished, and the plants are thriving well. Prospects appear to be good. Prices stationary.
	7 Nudda „ 31, '90	2.79	Weather—seasonable. Sowings nearly completed. Rain beneficial to early rice.
	Kushtia ...	1.58	
	Meherpore ...	1.35	
	Chuadanga ...	0.99	
	Ranaghat ...	0.94	
	8 Khoolna „ 31, '90	2.19	Weather—rainy. Land is being prepared for the sowing of <i>amun</i> . <i>Aus</i> is germinating. The heavy rain is said to have done some harm to jute in Satkhira.
	Bagirhat ...	4.58	
	Satkhira ...	4.23	
	9 Jessore „ 31, '90	0.61	Weather—hot and cloudy with occasional showers. Sowings of both <i>amun</i> and <i>aus</i> nearly over; harvesting of <i>boro</i> completed. Prospects good. The recent rain has been very beneficial. Price of rice stationary.
	Jhenidah ...	1.16	
	Magura ...	1.96	
	Narail ...	2.21	
	Bongong ...	3.40	
	10 Moorshedabad „ 31, '90	0.14	Fine weather with passing clouds. <i>Bhadoi</i> is still being sown, but rain needed in the Sudder subdivision.
Lalbagh ...	0.73		
Jungipore ...	0.15		
Kandi ...	1.40		
11 Dinapore „ 31, '90	1.78	Weather—variable. <i>Bhadoi</i> and sugarcane and most of the jute sowings completed. The area under these crops is larger than usual owing to the favourable rain. Prospects are good. Price of rice at Dinapore 17 seers and at Thakurgaon 18 seers per rupee.	
Thakurgaon ...	0.62		
12 Rajshahye „ 31, '90	0.93	Weather—seasonable; very hot sometimes, notwithstanding occasional showers. The rain has done much good to the crops, which are all coming on very nicely.	
Natore ...	3.50		
Nowgong ...	1.78		
13 Rangpur „ 31, '90	1.06	Weather—constantly overclouded with frequent thunderstorms. A spell of sunshine and dry weather is needed to allow of the weeds being kept down. All crops look magnificent.	
Kurigram ...	0.53		
Gaibanda ...	1.75		
Nilphamari ...	1.44		
14 Bogra „ 31, '90	2.27	Weather—changeable. Jute and <i>aus</i> rice growing well. Preparation for <i>amun</i> crop going on. Common rice selling at 18 seers per rupee.	
Sherpur ...	1.65		
Nowkhilla ...	2.28		
15 Patna „ 31, '90	1.88	Weather—hot and cloudy. Mornings generally cool. Prospects of standing crops continue good. Planting of sugarcane is being pushed on vigorously. Jute has been sown on about 12 annas of the usual area. Transplanting of <i>amun</i> seedlings nearly completed. No change in prices.	
16 Darjeeling „ 31, '90	1.77	Weather—fair. Sowing of <i>bhadoi</i> and jute in the Terai still continues. Land is being prepared for the transplanting of <i>kaimati</i> . Potatoes, <i>chota marua</i> , and <i>bhutta</i> in the hills doing well.	
17 Jalpigorce „ 31, '90	2.31	Weather—hot and sometimes cloudy. Sowing of <i>bhadoi</i> and jute nearly completed. Prospects generally good. Price of rice continues stationary.	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Divn.	18 Dacca May 31, '90	3.87	Weather—mostly cloudy and hot. Jute and paddy thriving. Chillies being gathered. Rain has done much good to the standing crops. Fodder is available. Price of common rice 14 to 16 seers per rupee.
	19 Furreedpur „ 31, '90	1.77	Weather—seasonable. State and prospects of all standing crops favourable. Price of common rice varies from 14 to 16 seers per rupee.
	20 Backergunge „ 31, '90	4.07	Weather—seasonable. Prospects of crops fair. Common rice selling at from 12 to 15 seers per rupee.
	21 Mymensingh „ 31, '90	3.57	Weather—rainy and seasonable. Crops doing well. Rice sells at 13 seers 10 chittacks per rupee.
Chittagong Divn.	22 Chittagong „ 31, '90	1.07	Weather—seasonable. Sowing of <i>pania aus</i> paddy over; prospects good. <i>Leua</i> worm has disappeared owing to recent rainfall. Price of common rice remains unchanged.
	23 Noakholly „ 31, '90	6.21	Weather—cloudy and rainy. Sowing of <i>aus</i> almost completed, and six annas of <i>amun</i> on average reported to have been sown. Price of rice stationary.
	24 Tipperah „ 31, '90	2.45	Weather—bright and hot at beginning of week; cloudy, wet, and cool at its close. <i>Aus</i> , <i>amun</i> , and jute doing well. Outturn of <i>boro</i> above 16 annas. Prices stationary.
	25 Chittagong Hill Tracts. „ „	...	Report not received.
BEHAR.			
Patna Divn.	26 Patna „ 31, '90	0.90	Weather—very hot; occasionally cloudy. Preparation of lands for <i>bhadoi</i> and <i>aghani</i> sowings in full progress with the rainfall of the week. Harvesting of <i>cheena</i> will shortly commence. Mango a very good crop. Prices almost stationary.
	Barh „ „	0.70	
	Behar „ „	1.07	
	Dinapore „ „	1.92	
	27 Gya „ 31, '90	A few drops.	Weather—hot. Sugarcane doing well. Prices of food-grains almost stationary.
	28 Shahabad „ 31, '90	1.63	Weather—hot and muggy. <i>Cheena</i> still being harvested. Prospects good.
	Buxar „ „	0.75	
	Sasseram „ „	0.29	Weather—occasionally cloudy with east wind. Young plants of paddy, <i>cheena</i> , <i>janera</i> , and indigo doing well. <i>Mung</i> is being collected in places. Cultivation of lands for <i>bhadoi</i> sowings in progress. Prices almost stationary.
	Bhabuah „ „	Nil	
	29 Durbhunga „ 31, '90	Nil	Weather—unsettled; very close with easterly winds. Paddy, <i>cheena</i> , and <i>mung</i> in good condition. <i>Bhadoi</i> crops promising. Indigo prospects excellent.
Bhagalpore Divn.	30 Mozufferpur „ 31, '90	0.44	Weather—very hot and sultry except when the rain fell. Indigo and <i>cheena</i> much benefited by the rain. Ploughing for rice and <i>bhadoi</i> everywhere going on.
	Hajipur „ „	1.42	
	Sitamarhi „ „	Nil	Weather—hot. Sowing of paddy and <i>bhadoi</i> in progress. <i>Cheena</i> and <i>kodo</i> growing well. Prices of food-grains rising to some extent.
	31 Sarun „ 31, '90	1.99	
	32 Champaran „ 31, '90	4.79	Weather—very hot. The rain has done good, but more is wanted for sowing the <i>bhadoi</i> crops. Mango is very plentiful.
	Bettiah „ „	0.20	
	33 Monghyr „ 31, '90	1.08	Weather—cloudy with some heavy showers. <i>Bhadoi</i> sowings in progress and seedlings coming up in places. Indigo, as well as paddy in low lands, sugarcane, and <i>mung</i> much benefited by rain, and agricultural prospects generally good.
	Beguseral „ „	1.02	
	Jamui „ „	1.06	Weather—cloudy with showers and muggy weather. Prospects everywhere favourable owing to rain. Weeding of crops going on.
	34 Bhagulpur „ 31, '90	1.56	
Bhagalpore Divn.	Mudhepura „ „	1.15	Weather—hot and cloudy. Showers throughout the district and the weather very changeable. Harvesting of <i>boro</i> paddy completed. Cultivation of <i>bhadoi</i> and <i>amun</i> paddy is being pushed on. The standing crops are benefited by the late rain. Common rice sells at from 13 to 19 seers per rupee.
	35 Purneah „ 31, '90	2.14	
	Kishengunge „ „	0.12	Weather—cloudy, rainy and cool. Ploughing going on. Sowing of <i>maka</i> and paddy has begun.
	Arrareah „ „	1.29	
	36 Maldah „ 31, '90	1.63	
	Chanchal „ „	0.98	
	Shibgunge „ „	0.16	
	Gajole „ „	0.70	
	37 Sonthal Pergah „ 31, '90	1.63	
	Deoghur „ „	1.03	
Bhagalpore Divn.	Godda „ „	1.87	
	Rajmehal „ „	0.86	
	Pakour „ „	0.8	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack May 31, '90	0.40	Weather—seasonable. Sowing of <i>arad</i> paddy has commenced. Gathering of tobacco over. Cotton is being gathered. Sugarcane doing well. Report not received.
	39 Poore ...	...
	40 Balasore „ 31, '90	4.11	Weather—cool for time of year. Season most favourable for cultivation. Number of coolies on relief-works 170.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh May 31, '90	0.60	Weather—seasonable; rather unsettled latterly. Sugarcane doing well. Mango injured in places by high winds. Lands being ploughed everywhere. Rice selling at from 14 to 20 seers per rupee.
	42 Lohardugga „ 31, '90	1.16	
	Palamow (up to 26th) ...	0.02	Weather—very stormy; showers on three days at head-quarters, but heavy rain in the interior. Sowing of the paddy crops is in full swing all over the district. Sugarcane thriving. A full crop of cotton has been gathered. Price of rice at Chybassa 18 seers per rupee.
	43 Singhbhum May 31, '90	0.34	
CHOTA NAGPORE DIVN.	44 Manbhoom „ 31, 90	1.91	Weather—hot and cloudy. Heavy rain, which fell on Thursday (29th) afternoon, has facilitated ploughing. In a few places paddy is being sown. More rain would be beneficial. Rice selling at from 18 to 24 seers per rupee.
	Govindpore ...	0.11	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 3rd June, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	STATION OBSERVATIONS.																
	DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.									
			Mean barometric height, S. A. M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, S. A. M. temperature.	
ORISSA.	Pooree	Pooree	29.624	29.636	—0.063	SW	377	91.7	30th May	79.1	28th May	90.8	82.2	86.5	—	85.1	
	Gopalpore	Gopalpore	29.607	29.628	—0.063	SSW	439	90.2	24th "	79.1	24th "	89.2	82.4	85.8	+0.7	85.1	
	Paise Point	Paise Point	29.636	29.657	—0.056	S	359	92.5	26th "	72.1	27th "	91.8	77.1	84.5	—1.0	84.9	
SOUTH-WEST BENGAL.	Cuttack	Cuttack	29.568	29.649	—0.035	S & SE	130	161.9	27th "	75.3	28th "	89.0	81.0	90.3	—0.2	87.0	
	Balasore	Balasore	29.594	29.652	—0.034	SSW	279.2	97.5	26th "	73.3	30th "	94.1	77.1	85.6	—2.5	86.3	
	South-West Midnapore	Saugor Island	29.635	29.661	—0.038	Variable	309	93.7	27th "	73.5	28th "	92.7	78.1	85.4	—1.4	80.3	
SOUTH-WEST BENGAL.	Midnapore	Midnapore	29.611	29.663	—0.022	S	363.8	98.3	24th "	72.2	26th "	96.0	76.1	86.1	—3.0	83.6	
	24-Pergunnahs	Calcutta	29.645	29.667	—0.026	Variable	123	95.0	24th "	71.2	26th "	92.9	75.5	84.2	—1.9	82.2	
	Howrah	Howrah	29.548	29.648	—0.040	South-Easterly	123	99.7	25th "	74.4	30th "	93.3	77.8	86.6	—1.5	81.5	
SOUTH-WEST BENGAL.	Hooghly	Hooghly	29.534	29.633	—0.026	Variable	140	100.1	25th "	69.6	30th "	95.5	75.8	85.6	—	81.8	
	Burdwan	Burdwan	29.548	29.648	—0.040	South-Easterly	123	99.7	25th "	74.4	30th "	93.3	77.8	86.6	—1.5	81.5	
	Bankoora	Bankoora	29.534	29.633	—0.026	Variable	140	100.1	25th "	69.6	30th "	95.5	75.8	85.6	—	81.8	
SOUTH-WEST BENGAL.	Beerbhoom	Raneegunge	29.535	29.668	—0.060	Variable	123	163.0	24th "	72.9	25th "	96.1	76.0	86.5	—3.9	81.9	
	West Burdwan	Burdwan	29.594	29.661	—0.036	E	109.9	99.7	24th "	71.8	25th "	94.6	76.3	85.5	—1.5	79.9	
	Moorshedabad	Berhampore	29.594	29.661	—0.036	E	109.9	99.7	24th "	71.8	25th "	94.6	76.3	85.5	—1.5	79.9	
SOUTH-WEST BENGAL.	Nuddea	Krishnagur	29.613	29.661	—0.021	ESE	157.7	97.3	24th "	73.3	26th "	93.4	75.6	84.4	—2.8	81.1	
	Jessore	Jessore	29.642	29.676	—0.036	Variable	81.7	96.8	24th "	75.4	24th & 28th May	93.2	76.6	84.9	—1.6	81.6	
	Khoolna	Jessore	29.642	29.676	—0.036	Variable	81.7	96.8	24th "	75.4	24th & 28th May	93.2	76.6	84.9	—1.6	81.6	
SOUTH-WEST BENGAL.	Chittagong	Chittagong	29.618	29.708	—0.062	SSE	120	95.2	24th "	74.0	30th "	90.4	76.6	83.5	+0.9	81.5	
	Chittagong Hill Tracts	Demagiri	Observations not received.														
	Backergunge	Barrisal	29.609	29.702	—0.022	Calm	88.9	95.3	25th "	72.9	29th "	91.0	76.7	83.9	—0.1	82.2	
SOUTH-WEST BENGAL.	Noakholly	Noakholly	29.670	29.714	—0.006	Variable	128	92.0	24th, 25th May	73.8	26th "	83.2	76.0	82.1	—1.4	81.9	
	Furriedpore	Furriedpore	29.658	29.698	—0.027	South-easterly	96	94.5	24th "	74.9	21th, 25th May	89.1	76.5	82.8	—1.7	80.9	
	Dacca	Dacca	29.669	29.692	—0.034	Variable	124.3	94.1	25th "	73.2	25th, 26th May	89.9	75.4	82.7	—1.8	81.2	
SOUTH-WEST BENGAL.	Commillah	Commillah	29.661	29.697	—0.036	E & S	171.6	94.3	24th "	72.9	28th "	89.7	75.1	82.4	—1.3	81.3	
	Mymensingh	Mymensingh	29.644	29.709	—0.041	ESE	112.2	92.7	24th "	71.6	25th "	88.3	75.8	82.1	0	80.6	
	Bogra	Bogra	29.598	29.671	—0.013	ESE	129.3	90.3	26th "	71.6	28th "	87.6	75.7	81.7	—0.7	80.3	
SOUTH-WEST BENGAL.	Pubna	Serajgunge	29.629	29.676	—0.045	E	163.1	93.6	24th "	72.2	25th "	89.3	75.3	82.5	—1.4	80.3	
	Rajshahye	Rampore Beaulah	29.607	29.677	—0.018	South-Easterly	99.7	94.5	24th "	74.6	28th "	91.3	76.6	84.0	—1.7	81.2	
	Maldah	Maldah	29.599	29.689	+0.065	E	77.6	98.6	24th "	70.4	28th "	92.4	75.7	83.7	—	81.4	
SOUTH-WEST BENGAL.	Dinapore	Dinapore	29.561	29.682	—0.042	E	43.6	94.1	24th "	74.1	24th, 28th May	89.7	75.7	82.7	—0.6	80.2	
	Rungpore	Rungpore	29.583	29.708	—0.025	E	56.6	93.8	24th "	75.2	26th "	90.2	75.1	82.7	—1.0	80.5	
	Julpigoree	Julpigoree	29.469	29.697	—0.044	?	?	91.9	24th, 25th May	71.1	24th, 25th May	90.2	72.8	81.5	+1.1	80.4	
SOUTH-WEST BENGAL.	Cooch Behar	Julpigoree	29.469	29.697	—0.044	?	?	91.9	24th, 25th May	71.1	24th, 25th May	90.2	72.8	81.5	+1.1	80.4	
	Darjeeling Hill Tracts	Darjeeling	29.586	—	—0.012	Variable	87.3	65.6	25th, 27th May	52.1	24th "	64.0	53.6	58.8	+5.4	58.3	
	Purneah	Purneah	29.559	29.686	—0.068	ESE	107.8	96.7	24th "	70.9	29th "	92.5	74.2	83.4	—7.1	81.2	
SOUTH-WEST BENGAL.	North Bhagulpore	North Bhagulpore	29.449	29.636	—0.010	ENE	267.4	100.9	24th, 25th May	72.7	28th "	95.8	79.0	87.4	0	81.0	
	Mozufferpore	Mozufferpore	29.449	29.636	—0.010	ENE	267.4	100.9	24th, 25th May	72.7	28th "	95.8	79.0	87.4	0	81.0	
	Durbhunga	Durbhunga	29.495	29.603	—0.024	ENE	157.4	100.4	24th, 25th May	?	?	95.9	?	?	?	80.8	
SOUTH-WEST BENGAL.	Champaran	Motihari	29.434	29.603	—0.008	ESE	222.3	99.2	24th, 25th May	71.5	30th "	94.2	76.2	83.2	—1.5	81.7	
	Saran	Chupra	29.434	29.628	—0.035	E	189.2	102.5	25th May	70.2	27th "	95.6	77.1	86.4	—3.3	83.4	
	Shahabad	Dehree	29.250	29.660	—0.033	E	155.5	116.4	25th "	75.0	25, 27 "	104.2	78.4	91.3	+0.7	89.7	
SOUTH-WEST BENGAL.		Buxar	29.374	29.615	—0.066	E	216.9	106.4	25th "	69.3	27th "	95.5	78.3	88.8	—2.2	85.7	
		Arrah	29.411	29.605	—0.042	NNE & ENE	77.5	105.4	24th & 25th May	69.7	27th "	97.7	78.4	85.1	—3.0	84.8	
	Gya	Gya	29.245	29.619	—0.036	E	178.0	109.1	25th "	74.8	27th "	105.8	80.9	93.4	+1.4	89.2	
SOUTH-WEST BENGAL.	Patna	Bankipore	29.440	29.624	—0.046	E	193.4	103.5	25th "	71.2	27th "	96.0	77.4	86.7	—6.5	83.9	
	South Bhagulpore	Bhagulpore	29.459	29.632	—0.014	E	93.7	109.8	24th "	71.9	27th "	92.4	75.2	83.8	—3.5	80.5	
	Monghyr	Bhagulpore	29.459	29.632	—0.014	E	93.7	109.8	24th "	71.9	27th "	92.4	75.2	83.8	—3.5	80.5	
SOUTH-WEST BENGAL.	Southal Pergunnahs	Doomka	29.163	29.661	—0.008	Variable	163.4	101.7	24th & 25th May	69.5	28th "	93.5	75.5	84.4	—4.4	81.3	
	Hazaribagh	Hazaribagh	27.649	29.631	—0.036	Variable	255.8	104.8	26th "	69.2	30th "	99.3	75.1	87.2	+0.7	81.9	
	Lohardugga	Ranchee	27.540	29.636	—0.029	South-Westerly	126.5	102.0	24th "	70.4	30th "	97.4	73.3	85.3	—1.4	81.3	
SOUTH-WEST BENGAL.	Manthoom	Manthoom	27.540	29.636	—0.029	South-Westerly	126.5	102.0	24th "	70.4	30th "	97.4	73.3	85.3	—1.4	81.3	
	Singhbhoom	Chyabassa	28.866	29.636	—0.033	Variable	67.0	103.3	25th "	76.7	29th "	99.9	78.3	89.1	—2.7	83.1	
		Sibsagar	29.401	29.737	—0.042	Variable	—	94.1	24th "	74.0	27th "	90.2	76.0	83.1	+1.9	79.3	
SOUTH-WEST BENGAL.	Assam	Dhubri	29.577	29.695	—0.051	NE, ENE	117.5	92.2	24th "	73.3	25th "	89.3	75.9	82.5	+1.3	80.9	
		Silchar	29.608	29.714	—0.058	Calm	—	93.5	24th "	73.5	25th "	91.3	74.8	83.1	+0.7	79.9	

* Mean for five days. † Mean for six days.
 Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last year. The humidity of the atmosphere is expressed at percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by 10. The numbers in the parentheses are the average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the past year. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 30th of May 1890.

DISTRICT OBSERVATIONS.															
Average humidity at 8 A.M.		Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Representative station.	DISTRICT.		
				Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.		
						Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.				
87	7.7	0.47		1.63			2.98			1.69			1.6	Pooree	Pooree
87	7.7	0.27												Gopalpore	
89	7.7	0.96												False Point	
69	7.4	0.33		1.29			3.36			1.91			2.1	Cuttack	Cuttack
79	0.4	4.41	2.13	1.46	5.08		4.69	+0.39	4.19	2.49	+1.70	4.0	2.0	Balasore	Balasore
84	8.1	1.18	1.59	1.31	7.42		4.70	+2.72	6.97	2.17	+4.80	4.0	2.2	Saugor Island	South-West Midnapore
79	3.3	1.64	2.65	1.17	6.51		4.97	+1.55	6.29	1.91	+4.29	3.0	2.1	Midnapore	South 24-Pergunnahs
84	7.7	1.28	2.86	1.69	6.05		5.55	+0.50	5.63	2.52	+3.11	2.7	2.7	Calcutta	24-Pergunnahs
79	8.1	0.99	1.18	1.58	3.16		4.97	-1.81	2.83	2.55	+0.28	2.0	2.2	Burdwan	Howrah
81	4.4	2.06	2.21	1.18	4.05		3.58	+0.47	4.05	1.89	+2.16	2.8	2.3	Bankoora	Hooghly
79	4.9	1.68	1.26	1.69	1.87		3.26	-1.39	1.77	1.82	-0.05	2.8	2.2	Raneegunge	West Burdwan
86	9.0	0.14	0.72	1.89	3.30		5.03	-1.73	2.58	2.92	-0.34	2.0	2.4	Berhampore	Moorshedabad
83	7.9	2.84	1.63	2.07	4.38		6.14	-1.76	3.67	3.31	+0.36	3.0	2.6	Krishnagpur	Nuddea
88	7.4	0.99	2.59	1.99	6.11		6.69	-0.58	4.66	3.18	+1.48	3.1	3.0	Jessore	Jessore
82	7.0	1.35	1.66	2.69	3.72		9.57	-5.85	3.29	4.82	-1.53	3.3	2.8	Chittagong	Khoulina
			4.37	2.10	8.63		9.14	-0.51	6.09	3.88	+2.21	6.0	3.3	Demagiri	Chittagong Hill Tracts
73	6.9	4.09	3.81	2.12	6.34		7.43	-1.09	6.63	3.64	+2.39	3.3	3.1	Barrisal	Backergunge
84	3.0	4.08	4.39	2.40	8.49		9.95	-1.46	3.85	4.39	+1.55	4.5	3.4	Noakholly	Noakholly
86	6.6	0.89	1.07	2.54	5.37		8.35	-2.98	3.20	4.08	-0.88	3.7	3.0	Furreedpore	Furreedpore
83	8.1	3.81	4.20	2.18	8.78		8.54	+0.24	6.16	3.72	+2.44	4.0	3.1	Dacca	Dacca
78	5.6	2.33	3.17	2.37	9.10		9.73	-0.63	4.63	3.85	+0.78	3.8	3.4	Commillah	Tipperah
89	7.1	4.01	3.37	2.14	9.73		9.35	+0.38	5.96	4.61	+1.35	3.6	3.3	Mymensingh	Mymensingh
87	7.7	2.27	1.63	2.59	6.90		7.43	-1.43	3.94	4.20	-0.26	2.5	3.0	Bogra	Bogra
87	6.1	2.21	1.64	2.02	6.08		6.92	-0.84	4.37	3.64	+0.63	2.0	2.6	Serajgunge	Pubna
86	3.1	0.97	3.07	2.16	5.64		5.60	+0.04	4.63	3.23	+1.39	2.7	2.6	Rampore Beaulah	Rajshahye
83	2.7	1.63	1.33	1.23	4.63		4.22	+0.41	2.42	2.56	-0.14	2.5	2.0	Maldah	Maldah
85	4.6	0.97	1.76	2.32	6.08		5.56	+0.47	3.37	3.63	-0.26	2.6	2.4	Dinagore	Dinagore
89	2.3	0.71	1.65	3.32	8.47		10.71	-2.24	4.02	6.87	-2.85	3.3	3.2	Rangpore	Rangpore
83	1.4	2.15	2.22	4.34	7.20		12.51	-5.31	3.08	8.16	-5.08	5.6	3.8	Julpigoree	Julpigoree
93	7.9	1.77	1.93	3.63	6.48		10.47	-3.99	3.51	6.37	-2.86	3.8	4.2	Darjeeling	Cooch Behar
82	6.1	1.26	0.72	1.52	3.57		4.61	-1.04	1.99	2.70	-0.71	1.2	1.6	Purneah	Darjeeling Hill Tracts
89	4.7	0.48	0.63	0.83	2.60		2.44	+0.16	1.78	1.33	+0.45	1.0	1.2	Mozufferpore	Purneah
86	5.4	0.05	0.13	0.74	2.31		2.54	-0.23	1.29	1.30	-0.01	0.7	0.9	Durbhunga	North Bhagulpore
74	5.0	4.39	2.50	6.78	4.95		2.59	+1.47	3.72	1.35	+2.37	2.5	1.6	Motihari	Durbhunga
74	2.7	1.99	1.07	0.75	2.69		1.98	+0.71	1.67	1.08	+0.59	1.7	1.0	Chupra	Chumpran
49	1.1	Nil													
61	3.6	0.58	0.11	0.65	0.71		1.33	-0.59	0.30	0.85	-0.55	0.6	0.9	Dehree	Saran
70	2.9	1.63												Buxar	Shahabad
														Arrah	
61	4.9	Drop.	0.88	0.61	1.23		1.74	-0.54	0.91	1.33	-0.42	0.8	1.0	Gya	Gya
73	4.6	0.90	1.15	0.83	2.41		2.09	+0.32	1.30	1.43	-0.13	1.0	1.1	Bankipore	Patna
83	7.0	1.59	1.53	0.74	3.22		2.33	+0.89	2.04	1.49	+0.55	2.2	1.1	Bhagulpore	South Bhagulpore
78	2.1	1.33	1.10	1.23	3.08		3.50	-0.42	2.14	2.10	+0.04	2.8	1.7	Doomka	Monghyr
62	9.4	0.75	0.44	1.29	0.94		2.43	-1.49	0.64	1.32	-0.68	1.6	1.8	Hazaribagh	Sonthal Pergunnahs
62	6.6	1.09	0.54	1.16	1.83		2.29	-0.46	1.35	1.67	-0.32	1.7	2.0	Ranchi	Hazaribagh
			1.12	0.65	1.94		2.62	-0.69	1.49	1.51	-0.02	2.5	2.1		Lohardugga
68	5.1	0.33	0.34	1.46	4.02		4.08	-0.06	1.29	2.48	+0.42	3.0	1.9	Chyebassa	Manthoom
99	9.1	0.94												Sibsagar	Singbhoom
86	8.0	1.12												Dhubri	
88	8.9	4.10												Silchar	Assam

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means 17 years. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rain-fall from 15th May to date.	
			Saturday, 24th May.	Sunday, 25th May.	Monday, 26th May.	Tuesday, 27th May.	Wednesday, 28th May.	Thursday, 29th May.	Friday, 30th May.	Number of rainy days.	Rainfall of week.					
ORISSA	Pooree	Pooree	.....	.....	.....	.....	0'39	0'01	.....	12	0'40	1'84	2'58	1'84	1'46
		Khurdah	.....	.....	.....	.....	0'06	0'01	.....	12	1'87	3'80	3'80	3'80	2'10
		Banpur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		False Point	.....	.....	0'09	0'75	.....	0'10	0'02	4	0'06	2'35	3'77	2'31	2'35
		Gop	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Cuttack	Satpara	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Pipili	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Jagatsingapore	.....	.....	.....	.....	0'44	1'20	.....	2	1'64	.....	2'65	.....	1'39
		Banki	.....	.....	.....	.....	0'49	.....	.....	1	0'40	1'23	4'43	0'62	0'65
		Cuttack	.....	.....	0'09	0'21	.....	0'08	.....	3	0'40	5'73	3'81	3'61	2'64
SOUTH-WEST BENGAL.	Balasore	Kendrapara	.....	.....	.....	0'13	0'39	0'18	.....	3	0'70	6'09	4'46	5'92	2'40
		Jajpore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Dharmasala	.....	.....	0'16	0'07	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Salsipore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Chandhali	.....	.....	0'08	0'20	0'21	0'29	0'23	5	0'92	4'03	4'96	3'33	3'42
	Midnapore	Rhuddruek	0'10	.....	0'23	0'25	0'31	0'39	0'29	6	1'40	4'37	5'15	3'87	3'03
		Sorah	.....	.....	.....	1'30	.....	.....	.....	1	1'30	0'20	5'18	4'30	3'16
		Balasore	.....	.....	.....	0'18	0'71	0'33	2'81	4	4'11	0'20	4'85	5'43	2'69
		Jellasore	.....	.....	.....	0'80	0'25	0'49	1'30	4	5'04	5'96	3'18	5'74	1'57
		Raripodah	.....	.....	0'75	.....	0'05	0'60	.....	3	2'00	4'72	4'80	2'57	2'04
24-Pergunnahs	Diamond Harbour	Diamond Har-	.....	.....	0'04	.....	6'28	.....	0'06	3	0'38	6'52	5'65	5'43	2'14
		bour	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Canning Town	.....	0'37	2'04	.....	0'46	0'09	.....	4	2'96	4'49	5'65	3'86	2'14
		Alipore Jail	.....	0'85	0'35	.....	0'11	.....	.....	3	1'41	4'70	5'95	4'19	2'38
		Barrackpore	.....	0'80	1'20	.....	0'27	.....	.....	2	2'27	5'69	5'13	4'48	2'11
	Howrah	Dum-Dum	.....	0'22	0'51	.....	0'21	.....	.....	3	0'94	3'48	5'76	3'16	2'71
		Barasat	.....	.....	1'30	.....	1'44	.....	.....	2	2'84	6'70	5'95	6'60	2'67
		Buseerhat	.....	.....	0'14	1'23	0'73	.....	.....	3	2'12	6'38	6'58	6'15	3'63
		Howrah	.....	0'32	0'35	.....	0'16	.....	.....	3	0'77	3'16	5'12	3'01	2'15
		Moheroka	.....	0'71	0'17	.....	2'49	.....	.....	3	3'37	5'56	6'11	5'56	2'44
Hooghly	Serampore	Serampore	.....	0'42	1'31	.....	0'15	.....	.....	3	1'91	5'44	4'87	4'17	1'96
		Hooghly	.....	0'58	0'85	.....	.....	.....	.....	2	1'43	4'33	5'63	3'99	2'46
		Jehanabad	.....	1'14	0'45	.....	.....	.....	.....	2	1'59	5'14	5'09	5'05	2'67
		Culina	.....	0'22	0'90	.....	.....	.....	.....	2	1'12	3'06	4'87	2'65	2'23
		Burdwan	.....	0'46	0'53	.....	.....	.....	.....	2	0'90	2'06	4'94	2'77	2'78
	Burdwan	Cutwa	.....	0'41	1'03	.....	.....	.....	.....	2	1'44	3'47	5'10	3'07	2'66
		Raneegunge	.....	0'66	1'01	.....	.....	.....	0'01	2	1'08	2'48	2'38	2'48	1'81
		Mankur	.....	2'08	1'58	.....	.....	.....	.....	2	3'66	4'14	.....	4'14	.....
		Bankoora	.....	0'05	0'39	.....	.....	.....	1'05	3	2'60	4'61	3'66	4'61	2'05
		Bishenpore	.....	1'47	2'00	.....	.....	.....	0'33	3	3'80	6'58	4'34	6'58	1'87
Bankoora	Maliara	Maliara	.....	0'59	0'26	.....	.....	.....	.....	2	0'95	1'50	2'94	1'50	1'55
		Khatra	.....	0'25	0'11	.....	.....	.....	1'64	3	2'01	3'52	3'56	3'32	2'04
		Indas	.....	0'31	0'46	.....	.....	.....	.....	2	0'77	2'73	.....	2'73	.....
		Kotalpore	.....	0'45	0'32	.....	.....	.....	.....	2	0'77	4'87	.....	4'87	.....
		Anda	.....	0'20	0'40	.....	.....	.....	0'09	2	1'50	3'34	.....	3'34	.....
	Gangajalghati	Raipore	.....	.....	0'94	.....	.....	.....	0'09	2	1'03	3'61	.....	3'61	.....
		vonamukhi	.....	1'32	.....	0'22	.....	.....	1'45	3	2'99	6'65	.....	6'65	.....
		Heerbhoom	.....	0'19	1'16	.....	.....	.....	.....	2	1'26	2'46	.....	2'46	.....
		Bh. Soory	.....	0'18	0'59	0'05	.....	.....	.....	3	0'80	1'14	3'42	1'09	1'84
		Hetampore	.....	0'29	0'38	.....	.....	.....	.....	2	0'67	1'03	3'02	1'03	1'65
Nadda	Rampore Haat	Rampore Haat	.....	1'03	0'72	.....	0'13	.....	.....	3	1'88	2'78	3'67	2'46	1'90
		Bolpore	.....	0'60	0'34	0'04	0'81	.....	.....	3	1'19	2'76	.....	2'76	.....
		Murari	.....	.....	.....	0'33	.....	.....	.....	2	0'93	2'26	.....	2'26	.....
		Ranaghat	.....	.....	0'11	0'10	.....	0'73	.....	3	0'94	2'91	5'00	2'41	2'71
		Kishnaghat	.....	0'76	0'21	0'96	0'86	.....	.....	4	2'79	5'27	5'56	5'17	2'61
	Khoolna	Choodanga	.....	0'77	.....	0'02	0'02	0'18	.....	4	0'99	4'58	7'47	3'57	4'20
		Meherpore	.....	0'45	.....	.....	0'90	.....	.....	2	1'31	2'36	5'53	2'15	3'03
		Kooshtem	.....	.....	1'10	0'48	.....	.....	.....	2	1'58	6'74	7'02	5'08	3'96
		Satkhira	.....	.....	.....	0'80	.....	3'43	.....	2	4'23	8'39	6'21	8'00	2'22
		Bagirhat	.....	.....	.....	.....	.....	3'85	0'72	2	4'68	6'13	6'82	5'52	3'16
Jessore	Khoolna	Khoolna	.....	.....	0'68	.....	0'90	.....	0'61	3	2'19	5'73	6'02	4'23	2'76
		Nakipore	.....	.....	1'07	1'02	1'85	.....	0'27	4	4'81	8'88	.....	8'88	.....
		Rampal	.....	0'08	0'56	.....	1'25	0'99	.....	4	2'80	5'94	.....	5'94	.....
		Narail	.....	0'50	0'15	.....	.....	1'06	0'50	4	2'21	8'68	6'70	6'84	2'85
		Jessore	.....	0'38	.....	0'10	0'06	0'35	0'10	5	0'99	5'28	7'33	2'03	3'44
	Moorshedabad	Jnenidah	.....	0'00	0'25	0'08	.....	0'23	.....	4	1'16	4'38	6'34	1'72	3'37
		Magoorah	.....	0'06	0'77	.....	.....	0'23	.....	3	1'96	6'25	7'73	4'32	3'93
		Bongong	.....	.....	.....	0'50	.....	2'90	.....	2	3'40	4'00	5'84	4'60	3'01
		Kandi	.....	0'35	1'05	.....	.....	.....	.....	2	1'40	3'10	4'41	1'72	2'45
		Berhampore	.....	.....	0'14	.....	.....	.....	.....	1	0'14	1'76	5'23	0'51	2'02
EAST BENGAL.	Chittagong	Lalbagh	.....	.....	0'57	.....	.....	0'16	.....	2	0'73	2'03	5'25	1'64	3'12
		Azimungo	.....	.....	0'63	.....	.....	0'19	0'43	3	1'22	4'47	4'81	4'67	2'90
		Jungipore	.....	.....	.....	.....	.....	0'15	.....	1	0'15	0'96	4'81	0'50	2'24
		Lalga	.....	.....	0'25	.....	.....	0'40	.....	2	0'65	6'82	5'54	6'42	3'29
		Jagunje	.....	.....	0'46	.....	.....	0'16	0'55	3	1'17	4'71	.....	4'71	.....
	Chittagong Hill Tracts.	Akharganj	.....	0'38	0'93	.....	.....	0'04	0'35	4	1'08	3'06	.....	3'06	.....
		Pathabari	.....	.....	0'50	.....	.....	.....	.....	1	0'50	1'80	.....	0'90	.....
		Cox's Bazar	.....	.....	0'80	1'10	0'07	0'08	.....	4	2'65	4'35	10'08	4'80	5'14
		Chittagong	.....	.....	.....	0'28	.....	.....	0'41	3	1'07	2'49	9'06	1'78	4'48
		Kutubdia	.....	.....	.....	0'32	.....	.....	0'38	3	0'67	4'37	.....	2'52	.....
Backergunge	Satkanya	Satkanya	0'02	0'32	0'33	3	0'67	4'37	2'52
		Rangmat	.....	0'27	0'00	0'72	0'71	0'70	0'31	6	3'41	6'91	9'79	4'49	4'16
		Ruma	0'50	0'58	1'78	0'60	0'85	1'76	6	6'13	10'34	8'48	7'69	3'60
		Patuakhally	.....	.....	.....	0'12	0'18	1'50	1'40	4	3'29	6'06	7'83	6'05	4'68
		Perozopore	.....	.....	.....	0'31	.....	1'54	0'80	3	2'03	5'61	7'94	5'61	3'27
	Bhola	Burisal	.....	.....	.....	.....	.....	3'12	0'95	2	4'07	7'08	7'71	6'13	3'84
		Bhola	.....	.....	.....	0'11	1'73	3'26	0'21	4	5'31	6'63	7'11	6'35	3'38

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 24th May.	Sunday, 25th May.	Monday, 26th May.	Tuesday, 27th May.	Wednesday, 28th May.	Thursday, 29th May.	Friday, 30th May.	Number of rainy days.	Rainfall in week.				
EAST BENGAL—contd.	Noakhally	Gournaddi ..	1'02	.....	0'46	.....	1'06	1'38	.....	4	3'92	7'00	?	6'74	?
		Bauphal ..	.....	.....	0'83	0'22	0'53	2'33	0'08	5	3'99	8'65	9'53	5'09	4'35
		Noakhally ..	.....	.....	0'71	0'30	0'53	2'33	0'15	4	3'61	8'31	10'36	6'61	4'21
		Fenny ..	.....	.....	0'85	.....	1'02	1'00	.....	2	2'82	8'35	?	5'68	?
	Furzedpore	Harishpore ..	.....	.....	.....	.....	.....	.....	.....	2	2'82	8'35	?	5'68	?
		Ramganj ..	.....	.....	.....	.....	.....	.....	.....	2	2'82	8'35	?	5'68	?
	Dacca	Madaripore ..	.....	.....	.....	.....	0'70	3'00	.....	2	3'70	5'72	9'18	4'87	4'17
		Furzedpore ..	0'50	0'03	.....	0'20	0'64	.....	.....	5	1'44	5'17	8'84	4'54	3'51
	Hill Tipperah	Goalpunda ..	0'07	0'49	0'21	.....	0'49	0'18	.....	5	1'44	5'17	7'42	3'06	3'51
		Munshigunge ..	.....	1'72	.....	1'17	2'21	0'52	.....	4	5'62	8'56	9'09	6'83	3'95
		Dacca ..	.....	1'45	0'08	.....	1'42	0'22	.....	4	3'67	10'55	8'63	5'82	3'91
		Narainkunge ..	.....	2'01	.....	0'14	3'07	0'24	.....	4	5'46	9'54	7'89	6'78	3'33
	Tipperah	Manickganj ..	.....	0'78	0'16	.....	2'04	0'06	.....	4	3'04	6'47	8'54	5'16	3'62
		Joydebpore ..	.....	1'10	.....	0'55	2'21	0'41	.....	4	4'2	10'50	?	6'75	?
		Agartola ..	.....	.....	.....	.....	4'14	0'80	.....	2	4'94	11'22	10'20	6'36	3'82
		Comilla ..	.....	0'07	0'08	0'14	0'64	1'52	.....	5	2'45	8'12	9'87	4'05	4'07
	Mymensingh	Chandpore ..	.....	0'79	.....	0'33	2'10	.....	0'85	4	4'08	8'07	8'31	5'24	2'93
		Brahmunberia ..	.....	0'11	0'05	0'70	0'31	1'00	.....	5	2'17	9'19	10'54	3'79	4'68
		Ramchandrapore ..	.....	0'19	0'10	0'02	.....	1'67	0'33	6	2'34	8'03	?	3'07	?
		Nasirnagar ..	.....	0'50	.....	0'95	.....	1'15	1'10	4	3'70	13'05	?	6'15	?
	Kishoreganj	Daudkandi ..	.....	0'90	.....	0'22	0'22	0'25	.....	3	1'37	4'67	?	2'80	?
		Kasba ..	.....	0'08	0'30	2'00	1'20	.....	0'40	5	3'99	12'38	?	4'96	?
		Lakham ..	.....	.....	1'26	0'60	2'40	0'60	.....	4	4'86	?	?	?	?
		.....	.....	.....	.....	.....	.....	.....	.....	4	4'86	?	?	?	?
	Pubna	Kishoreganj ..	.....	1'04	1'07	.....	0'55	0'33	0'08	5	3'10	10'15	9'79	6'14	4'51
		Atia (Tangail) ..	.....	0'50	.....	.....	3'26	0'18	.....	3	4'03	10'56	10'50	7'43	3'46
		Mymensingh ..	.....	1'02	0'22	.....	1'5	0'45	0'08	5	3'57	9'93	10'50	5'55	3'55
		Jamulpore ..	.....	0'80	.....	.....	2'5	.....	.....	2	3'32	9'91	10'25	5'61	3'86
	Bogra	Netrokona ..	.....	1'20	.....	.....	2'00	0'14	0'71	3	2'85	8'11	10'25	5'11	5'56
		Subornakhali ..	.....	0'70	.....	.....	1'70	.....	1'0	3	4'10	7'05	?	6'55	?
		Durgapore ..	.....	1'35	.....	.....	.....	0'40	.....	1	1'36	7'68	?	4'21	?
		Sherepore Town ..	.....	1'80	.....	.....	2'80	1'10	0'55	4	6'25	11'58	?	8'04	?
	Rajshahi	Dewanganj ..	.....	.....	.....	.....	.....	.....	.....	4	6'25	11'58	?	8'04	?
		Pubna ..	.....	0'75	.....	.....	0'25	.....	.....	2	1'00	3'94	6'74	2'61	3'45
		Serajganj ..	.....	0'58	.....	.....	1'75	.....	.....	2	2'28	8'25	7'10	5'02	3'83
		.....	.....	.....	.....	.....	.....	.....	.....	2	2'28	8'25	7'10	5'02	3'83
	Maldah	Sherepore ..	.....	0'63	.....	0'21	.....	.....	.....	3	1'63	4'25	8'17	3'21	4'74
		Nowkhilla ..	.....	0'24	.....	.....	2'04	.....	.....	2	2'28	9'73	6'45	5'39	3'26
		Bogra ..	.....	0'78	.....	0'9	1'25	.....	.....	3	2'10	4'62	8'08	3'79	4'56
		Pauchhibi ..	.....	0'0	.....	.....	0'10	.....	.....	1	0'5	5'37	7'00	3'33	4'29
	Majumdar	Beaulah ..	0'17	0'69	.....	.....	0'17	.....	.....	5	0'9	3'46	5'18	5'25	2'84
		Natore ..	.....	0'35	.....	.....	3'15	.....	.....	2	3'5	7'35	6'66	6'80	3'41
		Naogaon ..	.....	0'8	.....	.....	0'45	0'06	.....	3	1'78	6'13	4'97	3'83	3'43
		Laipore ..	0'54	.....	0'60	.....	.....	.....	0'30	3	1'30	4'86	?	2'84	?
	Malda	Mande ..	1'30	.....	0'14	0'50	.....	.....	.....	2	1'94	3'82	?	1'94	?
		Malda ..	0'19	0'02	.....	.....	1'42	.....	.....	3	1'63	4'72	3'84	3'25	2'21
		Chandahal ..	.....	0'14	.....	.....	0'4	.....	.....	2	0'98	4'55	4'00	2'80	2'80
		Gajol ..	.....	0'20	.....	.....	0'5	.....	.....	2	0'70	3'47	?	2'05	?
	Jinnapore	Sibganj ..	.....	.....	.....	.....	0'1	.....	.....	1	0'16	5'42	?	4'54	?
		Mohadebpore ..	.....	1'15	.....	0'92	0'95	.....	0'13	4	2'80	5'39	5'60	2'89	3'11
		Churamon ..	.....	.....	.....	.....	1'19	.....	.....	1	1'19	5'12	40'2	2'04	2'43
		Raigunge ..	.....	.....	.....	0'78	.....	0'01	.....	2	1'39	4'40	5'90	2'74	3'41
	Rangpur	Dinagore ..	0'11	0'07	.....	0'35	0'5	.....	.....	3	1'61	8'24	6'75	5'00	4'51
		Rainorchat ..	.....	0'07	.....	0'19	1'25	.....	.....	3	1'46	6'16	5'57	3'83	4'70
		Thakurgaon ..	.....	.....	.....	0'26	0'30	.....	.....	2	0'62	8'43	?	1'99	?
		.....	.....	.....	.....	.....	.....	.....	.....	2	0'62	8'43	?	1'99	?
	Jalpaiguri	Bhawaniganj ..	.....	1'55	.....	.....	0'20	.....	0'70	3	2'45	10'44	8'34	4'52	4'01
		(Gyabanda) ..	.....	.....	.....	.....	.....	.....	.....	3	2'45	10'44	8'34	4'52	4'01
		Rangpur ..	0'04	0'14	.....	0'02	0'07	0'14	.....	5	1'61	8'74	9'95	2'87	6'08
		Kuriganj ..	0'38	0'03	.....	.....	.....	.....	0'88	3	1'29	6'94	13'29	3'24	7'88
	Cooch Behar	Bagdola ..	0'37	.....	.....	0'87	.....	.....	.....	2	1'44	7'75	11'23	5'63	5'01
		(Nulphamari) ..	.....	.....	.....	.....	.....	.....	.....	2	1'44	7'75	11'23	5'63	5'01
		Ulipore ..	0'56	.....	0'02	1'32	.....	.....	.....	3	2'80	15'99	?	7'34	?
	.....	.....	.....	.....	.....	.....	.....	.....	3	2'80	15'99	?	7'34	?
	Dooch Behar	Jalpaiguri ..	1'11	0'64	.....	0'16	.....	0'29	0'11	5	2'31	6'64	11'37	?	7'05
		Alipore Dooch ..	.....	0'29	0'06	0'29	1'29	0'03	0'15	6	2'11	6'37	?	2'52	?
		Fallacotta ..	.....	0'26	0'03	0'24	0'39	.....	0'23	5	1'17	4'72	?	2'13	?
		Debiganj ..	.....	.....	.....	1'51	0'55	.....	.....	2	2'06	9'71	?	7'01	?
	Darjeeling Hill	Bhagatpore ..	1'18	0'35	.....	0'15	.....	0'34	0'47	5	2'66	9'75	?	5'82	?
		(Nagrakatta) ..	.....	.....	.....	.....	.....	.....	.....	5	2'66	9'75	?	5'82	?
		Dinhat ..	0'22	0'51	0'02	0'04	0'11	.....	0'24	6	1'16	6'40	12'09	2'66	8'83
		Cooch Behar ..	0'03	0'15	0'07	0'45	0'15	1'20	1'12	7	3'17	6'05	14'30	3'46	8'45
	Moulvibazar	Mickilganj ..	1'00	0'20	.....	0'07	.....	0'75	0'04	5	2'06	9'76	11'29	3'94	8'08
		Matihanga ..	.....	0'50	0'10	.....	0'30	0'76	0'74	5	2'40	7'14	12'16	3'88	8'36
		Buxa ..	.....	.....	0'01	0'13	1'14	0'04	0'63	5	1'97	7'09	20'04	2'90	13'37
		Siliguri ..	.....	0'17	.....	3'57	.....	.....	.....	2	3'74	9'45	8'30	2'60	5'45
	Purnea	Darjeeling ..	0'24	0'01	0'07	0'11	0'21	0'58	0'55	7	1'77	6'08	8'25	3'52	4'14
		Kalimpong ..	.....	.....	.....	.....	.....	0'25	.....	1	0'25	5'42	5'34	1'63	2'47
		Kurseong ..	0'03	0'70	0'20	1'46	0'17	0'56	0'05	7	3'16	9'06	?	6'75	?
	.....	.....	.....	.....	.....	.....	.....	.....	7	3'16	9'06	?	6'75	?
	North Bhagalpur	Kisanganj ..	0'12	.....	.....	.....	.....	.....	.....	1	0'12	3'40	5'84	0'89	3'43
		Arrah ..	0'72	.....	.....	0'19	.....	.....	.....	2	0'91	3'07	5'45	3'13	3'05
		Purnea ..	.....	.....	.....	1'05	.....	.....	.....	1	1'05	3'84	3'97	2'05	2'45
		Goudwara ..	.....	.....	.....	0'60	.....	.....	.....	1	0'60	?	?	?	?
	Durbhanga	Baizampore ..	.....	.....	.....	0'84	.....	.....	.....	1	0'84	1'74	?	?	?
		Matari ..	.....	.....	.....	.....	.....	.....	.....	2	0'88	4'05	?	1'24	?
		Kaliaganj ..	0'13	0'23	.....	.....	.....	.....	.....	1	1'15	3'30	3'60	1'26	?
		Maddapore ..	.....	.....	.....	0'15	.....	.....	.....	1	0'37	2'18	3'80	2'80	2'29
	Mouafferpore	Soopool ..	.....	.....	.....	0'57	.....	.....	.....	Nil	Nil	1'08	1'08	1'08	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.						TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 24th May.	Sunday, 25th May.	Monday, 26th May.	Tuesday, 27th May.	Wednesday, 28th May.	Thursday, 29th May.	Friday, 30th May.	Number of rainy days.	of Rainfall week.			
NORTH BHAR—concluded.	Chumpanun...	Motihari	.....	.....	.....	4.74	.....	.....	0.05	2	4.79	7.09	2.51	6.49
		Bettish	.....	.....	.....	0.08	0.09	.....	0.03	2	0.20	1.69	2.65	0.93
		Begaba	.....	.....	.....	0.32	0.29	.....	.....	2	0.61	0.73	?	0.61
SOUTH BHAR	Shahabad	Burhanpur	0.67	.....	.....	0.58	0.04	.....	0.11	4	1.40	2.97	?	1.53
		Gopalgunge	.....	.....	.....	1.40	.....	.....	0.10	2	1.50	1.64	2.64	1.50
		Sewan	.....	.....	1.19	.....	.....	0.32	.....	2	1.51	1.71	1.74	1.81
SOUTH BHAR	Shahabad	Chuprah	.....	.....	1.99	.....	.....	.....	.....	1	1.99	2.94	1.54	1.99
		Buxar	.....	.....	.....	1.24	.....	.....	.....	1	1.24	1.39	1.34	1.34
		Dohree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	Nil
SOUTH BHAR	Shahabad	Bhaboah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	Nil
		Sasseram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.47	1.17	0.23
		Arrah	.....	.....	.....	1.30	0.02	.....	.....	2	1.32	1.51	1.75	1.44
SOUTH BHAR	Shahabad	Mohanah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil
	Gya	Aurangabad	.....	.....	.....	.....	.....	.....	0.34	1	0.34	0.34	1.67	0.34
		Gya	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.90	1.63	Nil
SOUTH BHAR	Gya	Nowadah	.....	.....	.....	.....	.....	.....	.....	1	0.42	1.18	1.97	1.03
		Jehanabad	.....	.....	.....	1.05	.....	.....	.....	1	1.05	2.35	1.99	2.26
		Arwal	.....	.....	.....	0.89	.....	.....	.....	1	0.89	1.56	?	0.89
SOUTH BHAR	Gya	Daudnagar	.....	.....	.....	0.27	.....	.....	.....	1	0.27	0.27	?	0.27
		Sherrghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	Nil
SOUTH BHAR	Patna	PakriBarawan	.....	.....	.....	.....	0.35	.....	.....	1	0.35	0.35	?	0.35
	Patna	Patna	.....	.....	.....	0.90	.....	.....	.....	1	0.90	3.59	2.21	1.47
		Dinapore	.....	.....	.....	1.92	.....	.....	.....	1	1.92	3.23	1.97	1.92
SOUTH BHAR	Patna	Rehar	.....	.....	.....	.....	1.07	.....	.....	1	1.07	1.07	2.21	1.07
		Barrh	.....	.....	.....	0.70	.....	.....	.....	1	0.70	1.93	2.24	0.70
		Bickram	.....	.....	.....	1.40	.....	.....	.....	1	1.40	1.98	1.98	1.98
SOUTH BHAR	Patna	Hilsa	.....	.....	.....	2.25	.....	.....	.....	1	2.25	2.25	?	2.25
	Monghyr	Begoeserai	.....	.....	.....	1.08	.....	.....	.....	1	1.08	2.69	2.21	1.43
		Monghyr	.....	.....	.....	1.08	.....	.....	.....	1	1.08	4.18	2.44	2.60
SOUTH BHAR	Monghyr	Jamui	.....	.....	0.25	0.63	0.16	.....	.....	3	1.06	1.20	2.07	1.20
		Gopri	.....	.....	.....	0.77	.....	.....	.....	1	0.77	4.39	?	1.94
		Sheikpura	.....	.....	.....	0.30	.....	.....	.....	1	0.30	0.30	?	0.30
SOUTH BHAR	South Bhagulpore.	Bhagulpore	.....	0.52	.....	0.85	0.19	.....	.....	3	1.56	4.47	2.45	2.31
		Banks	1.31	.....	.....	1.03	0.69	.....	.....	3	2.94	4.31	2.45	3.28
		Kolgona	.....	0.50	.....	1.16	.....	.....	.....	2	1.66	3.91	?	2.01
SOUTH BHAR	South Bhagulpore.	Bangson	.....	.....	.....	.....	.....	.....	.....	2	1.66	3.91	?	2.01
	Sonthal Per-gunnabs.	Rajmehar	.....	.....	.....	.....	0.86	.....	.....	1	0.86	3.18	4.75	2.10
		Godda	0.20	0.45	.....	0.07	1.15	.....	.....	4	1.87	4.75	3.87	3.15
		Pakour	0.11	0.09	.....	.....	0.28	.....	.....	3	0.46	2.54	4.06	2.88
SOUTH BHAR	Sonthal Per-gunnabs.	Nya Doemka	.....	0.24	0.06	.....	1.33	.....	.....	3	1.63	2.92	3.25	1.95
		Deoghar	.....	0.11	0.03	0.30	.....	.....	.....	4	1.03	1.91	2.88	1.91
		Jamtara	.....	0.31	0.45	.....	.....	.....	.....	2	0.76	2.16	3.22	1.89
SOUTH BHAR	Sonthal Per-gunnabs.	Mohagama	.....	0.32	.....	.....	.....	.....	.....	1	0.52	1.77	?	0.52
		Namhat	.....	.....	.....	0.47	.....	.....	.....	1	0.47	0.59	?	0.59
CHUTIA NAG-PUR.	Hazariabagh	Pachamba	.....	0.25	0.14	0.04	.....	.....	.....	4	0.43	1.53	2.20	1.38
		(Giridi).	.....	.....	.....	.....	.....	.....	.....	0.03	4	0.43	1.53	1.38
		Hazariabagh	.....	0.12	.....	.....	.....	.....	.....	0.75	1	0.75	1.66	0.86
CHUTIA NAG-PUR.	Hazariabagh	Semakurah	.....	.....	.....	.....	.....	.....	.....	3	0.46	1.67	2.27	0.46
		Mahudi Hill	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.40	2.88	Nil
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	1	0.54	0.77	?	0.54
CHUTIA NAG-PUR.	Hazariabagh	Barhi	.....	.....	.....	.....	.....	.....	.....	0.79	1	0.79	?	0.79
		Chatra	.....	.....	.....	.....	.....	.....	.....	3	0.73	2.02	?	2.02
		Karagdeha	.....	0.11	0.49	.....	.....	.....	.....	1	2.10	3.90	?	2.65
CHUTIA NAG-PUR.	Lohardugga	Raughar	.....	.....	.....	.....	.....	.....	.....	1	2.10	3.90	?	2.65
	Lohardugga	Lohardugga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.76	2.43	0.25
		Ranchi	.....	0.14	.....	0.20	.....	.....	.....	4	1.29	3.27	3.04	2.37
CHUTIA NAG-PUR.	Lohardugga	Palsow	.....	.....	.....	.....	.....	.....	.....	0.33	1	0.33	1.48	1.48
		Silli	.....	0.40	.....	.....	.....	.....	.....	2	1.80	3.20	?	3.20
		Balumat	.....	.....	.....	.....	.....	.....	.....	0.15	1	0.15	?	0.15
CHUTIA NAG-PUR.	Singbhoom	Hossainabad	.....	.....	.....	.....	.....	.....	.....	0.15	1	0.15	?	0.15
	Singbhoom	Garmah	.....	.....	.....	.....	.....	.....	.....	0.03	3	0.34	4.06	2.90
		Chyebassa	.....	0.27	.....	0.04	.....	.....	.....	3	0.34	4.06	4.06	2.90
CHUTIA NAG-PUR.	Singbhoom	Chakradhar-pore.	.....	.....	.....	.....	.....	.....	.....	2	1.04	4.43	?	3.08
		Ghatilla	.....	.....	0.74	.....	.....	0.30	.....	2	1.40	4.83	?	2.97
		Baharagura	.....	.....	1.34	0.15	.....	.....	.....	2	1.40	4.83	?	2.97
CHUTIA NAG-PUR.	Manbhoom	Purulia	.....	0.26	.....	.....	.....	.....	.....	1.33	2	1.91	3.37	2.02
		Gobindpore	0.05	0.05	.....	.....	.....	.....	.....	3	0.33	0.53	1.87	0.37
		Kashunata-pore.	.....	.....	1.05	.....	.....	.....	.....	1.33	2	2.09	?	2.09
CHUTIA NAG-PUR.	Manbhoom	Burrabhoon	.....	.....	0.21	.....	.....	1.08	.....	3	3.33	4.23	?	4.23
		Jhalda	.....	.....	0.32	.....	.....	0.75	.....	2	1.14	2.36	?	1.66
		Chas	.....	0.32	.....	.....	.....	.....	0.52	2	0.84	1.78	?	1.28

Explanation.—..... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 3rd June, 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
30TH OF MAY 1890.**

THE general character of the weather during the present week is very similar to that of the preceding one, easterly or south-easterly winds with cloudy skies and frequent showers prevailing throughout the week. Pressure has been almost always below the normal, a low-pressure area continuing with very little change to the west of the province, and hence causing the almost uninterrupted indraught from east to west, to which is due the more than usually moist air in the western districts. As stated last week, there is towards the end of May a larger proportion of moisture in the air over East and North Bengal than in the early months of the hot weather, and this has been displaced in consequence of the easterly winds, a smaller proportion of rain falling in North Bengal, while in most of the western districts the rainfall has been above the normal. In the early part of the week, the change for the better, that had set in at the end of the last week, lasted for one or two days only. Pressure continued to fall briskly for the first two days, and easterly winds recommencing, showers were frequent on Sunday and Monday in all districts except Behar. On Monday the 26th, gradients were steeper from east to west than on any other day of the week, and though pressure was changing more slowly, the rise in the eastern districts and the fall in Behar and Chutia Nagpur was causing increased difference of pressure over the province. On Tuesday rainfall was very scattered in the lower districts, but was much more general in North Bengal and Behar, and frequently heavy in the latter. After this, pressure rose in Behar and fell in the east, so that greater uniformity prevailed, and wind velocity, which had been increasing while the gradients were steep, fell off considerably in all districts, and the scattered showers were chiefly confined to East Bengal and parts of South-West and North Bengal. Temperature in consequence of the continued cloudy weather has been lower than is usual at this season of the year, and changed rapidly but irregularly as the area of rainfall changed. The largest difference from the normal was in Behar on Tuesday when the heavy showers fell there. At the end of the week unsettled conditions appeared to be developing over the Bay: wind velocity fell off at the head of the Bay and increased at Diamond Island, but, though the rough sea reported from Burmah and Orissa showed that squally weather was beginning somewhere in the Bay, it died away without otherwise affecting the coast.

Pressure—Has been falling on five days out of the seven, but changes being generally small, the difference from the normal has never been greater than a tenth of an inch. The difference of pressure from west to east in the middle of the week was two-tenths of an inch, but this arrangement was for one day only. On the last day, the 30th, very uniform pressure prevailed, the greatest difference between the extreme east and west not exceeding a twentieth of an inch. The mean pressure for the week is everywhere below the normal, defect being largest in Assam, and exceeding a twentieth of an inch at Silchar and Dhubri. It is least in North Behar and the west of South-West Bengal, and in the other districts averages about three-hundredths of an inch.

Temperature—Has been below the normal in all districts except Assam, where there is excess of more than 1°. Defect is largest in North Behar, amounting to 3°, and in South Behar and South-West Bengal is over 2°, but elsewhere it is under 1°; 0.9° in Orissa, 0.8° in East Bengal, 0.4° in Chutia Nagpur, and 0.3° in North Bengal. Changes have at times been very large, but generally irregular, depending on the rainfall at the various stations. The most rapid were in Behar on Wednesday, when there was a general fall of over 5° and a defect in some cases exceeding 10°. This was followed by a rise of about 5° on each of the two following days, and by the end of the week the distribution did not differ much from the normal.

Rainfall—Was general in all districts, except Behar, on Sunday and Monday, and again on Wednesday in Orissa, South-West and East Bengal. Heavy rain fell in Behar on Tuesday and in Chutia Nagpur on Friday. The rainfall distribution has, therefore, been irregular, but from the occasional heavy falls, the means for the week have as a rule been very nearly normal or above it. In North Bengal only there has been a considerable defect, as last week, the easterly winds having carried the moisture more to the westward than is usual at this season of the year. The defect in North Bengal is 1 inch, in Chutia Nagpur nearly half an inch, while the fall in North Behar is practically normal and slightly in excess in the other districts except East Bengal, where it is very nearly 1 inch. Some of the heaviest falls are—Balasore 4 inches, Satkhira, Bagirhat, and Nakipore, between 4 and 5 inches, Burrisal 4 inches, Fenny 4.6 inches, Naraingunge and Munshigunge 5.5 inches, Chumparun 4.8 inches, and Barrabhoom 3.3 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 30th of May 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	101.9	72.1	93.1	79.9	86.5	-0.9	1.40	1.25	+0.15	3.0	1.9	+1.1	3.80	3.78	3.22	3.06
South-West Bengal ...	103.0	69.6	94.4	76.5	85.5	-2.3	1.73	1.63	+0.10	2.8	2.5	+0.3	4.70	4.35	4.10	2.39
East Bengal	95.3	71.6	89.5	76.0	82.8	-0.8	3.34	2.37	+0.97	3.8	3.1	+0.7	7.38	8.92	5.15	4.08
North Bengal*	98.6	73.4	90.1	75.3	82.7	-0.3	1.78	2.33	-1.04	3.2	3.0	+0.2	6.49	6.08	3.65	5.01
North Behar	102.3	70.7	94.3	78.8	85.6	-3.0	1.00	1.01	-0.01	1.3	1.3	0	2.94	3.07	1.97	1.73
South Behar*	110.4	63.3	98.4	77.7	88.1	-2.5	1.01	0.84	+0.17	1.6	1.2	+0.4	2.94	2.27	1.50	1.47
Chittia Nagpur	104.3	69.2	98.4	74.2	86.3	-0.4	0.65	1.11	-0.46	2.0	1.9	+0.1	1.86	2.37	1.27	1.64
Assam	94.1	72.3	90.3	75.5	82.9	+1.3										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 3rd June 1890.

O. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 25th to 31st May 1890.

MONTH.		Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
				Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
			Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	25th ...	29.647	84.3	94.5	20.5	74.0	89.1	83.3	1.063	81.1	77	0.57	
" " ...	26th ...	29.667	83.2	94.0	21.7	72.3	86.4	80.9	0.982	78.7	78	0.50	
" " ...	27th ...	29.673	80.1	95.0	17.8	77.2	89.6	83.0	1.041	80.5	75	...	
" " ...	28th ...	29.645	83.6	92.5	17.9	74.6	85.6	79.3	0.917	76.6	75	...	
" " ...	29th ...	29.608	86.7	93.0	12.7	80.3	86.6	82.5	1.057	80.9	84	...	
" " ...	30th ...	29.645	86.3	96.0	19.4	76.6	88.6	82.5	1.030	80.1	77	...	
" " ...	31st ...	29.602	89.0	96.0	14.1	81.9	91.6	83.1	1.019	79.8	69	...	

The mean 10 A.M. pressure of the seven days Inches.
29.641

The mean temperature of the seven days 85.6

The extreme variation of temperature 23.7

The maximum temperature 96.0

The mean 10 A.M. relative humidity of the seven days %
76

The total fall of rain from 25th to 31st May 1890 Inches.
1.07

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 2nd June 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
25th to 31st May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.	
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.			
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.		
May	25th	153.7	5.5	29.594	83.6	93.3	21.1	72.2	78.7	0.922	76.8	80	Variable	...	151	0.56	Chiefly cloudy, o, d, p.
"	26th	144.5	5.1	591	84.1	92.3	20.6	71.7	79.2	.939	77.3	80	SSW and variable	...	153	0.03	Chiefly cloudy, o, d.
"	27th	148.5	4.7	585	83.7	92.7	16.5	76.2	78.7	.919	76.7	80	SE by E and variable.	...	115	0.19	Chiefly cloudy, o, g, t, d, p.
"	28th	147.5	1.3	564	83.9	91.5	17.9	73.6	78.8	.920	76.7	79	Variable	...	77	0.01	Chiefly cloudy, o, d.
"	29th	146.1	0.9	567	84.4	91.6	11.9	79.7	80.1	.973	78.4	82	ENE and variable	...	76	0.01	Cloudy, o, t, d, p.
"	30th	152.5	3.3	585	85.1	93.5	18.1	75.4	80.3	.974	78.4	81	SW and SSW	...	140	Nil	Chiefly cloudy,
"	31st	145.5	2.4	547	87.3	93.6	12.2	81.4	80.3	.941	77.4	72	S by E, SSW and SSE.	...	168	"	Chiefly cloudy, o.

The mean pressure of the seven days Inches.
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.576
 29.592

The total number of hours of bright sunshine Hours.
 The maximum possible number of hours of sunshine 23.2
 93.4

The mean temperature of the seven days °
 The average temperature of the corresponding period for 24 years, S.-G.'s Office 84.6
 86.5
 The extreme variation of temperature 21.9
 The maximum temperature 93.6

The highest velocity of the wind in one hour Miles.
 14

The highest pressure of wind on one square foot lbs.
 Approximately 9

The mean relative humidity %
 The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 79
 75

The total fall of rain from 25th to 31st May 1890 Inches.
 The average fall of the corresponding period for 24 years, S.-G.'s Office 1.10
 1.58
 The total fall from 1st January to 31st May 1890 7.44
 The average fall of the corresponding period for 24 years, S.-G.'s Office 9.58

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly, at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, t thunder, d drizzling rain, p passing temporary showers, a dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 2nd June 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 17th May 1890

BIRTHS.

THE births registered during the week ending with Saturday, the 17th May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 15.9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is lower than the average rate of the corresponding week of the past five years by 2.2, and is also lower than the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	21.7	16.1	15.3	20.5	17.2	18.1	15.9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.		26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.
Burdwan	22.9	9.3	18.3	18.3	Narainganj	24.8	20.7	24.8	20.7
Midnapore	17.0	12.4	6.2	23.2	Chittagong	11.7	9.4	16.4	21.1
Hughli and Chinsurah	34.2	23.0	24.6	24.6	Comillah	30.8	42.4	50.1	19.3
Serampore	9.8	13.7	19.7	17.7	Patna City	6.2	5.5	7.5	7.1
Utterpara	9.4	9.4	18.9	28.3	Gya	21.9	13.3	14.3	21.2
Howrah	13.2	17.8	15.5	15.5	Arrah	10.8	14.4	10.8	19.1
Bali	7.0	21.1	7.0	10.5	Mozufferpore	10.9	10.9	15.8	14.6
Kishnagar	3.8	22.7	17.0	11.4	Durbhanga	21.2	16.5	31.5	23.6
Ranaghat	12.0	6.0	29.9	29.9	Chupra	22.1	14.1	5.0	15.1
Santipore	7.0	15.8	17.5	15.3	Bhagulpore	18.1	19.0	14.5	12.7
Jessore	6.1	18.4	18.4	18.4	Monghyr	19.0	17.2	9.9	23.5
Rampore Beaulah	34.2	21.0	31.5	28.9	Purneah	33.1	34.8	24.2	17.3
Darjiling	7.4	14.8	44.5	14.8	Poori	18.9	16.8	18.9	16.8
Dacca	23.4	6.5	13.6	7.8					

It will be seen that last week the highest birth-rate was returned from Ranaghat (29.9) and the lowest from Patna City (7.1). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22.5 per 1,000 of the population. The rate of the week is .5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	28.5	20.9	20.6	20.1	20.2	22.0	22.5

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.		26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.
Burdwan	22.0	21.4	24.4	27.5	Narainganj	8.3	16.6	19.4	12.4
Midnapore	13.9	17.0	32.5	23.2	Chittagong	21.1	2.3	7.0	21.1
Hughli and Chinsurah	54.2	63.6	47.6	47.6	Comillah	11.6	10.3	23.1	15.4
Serampore	40.1	31.4	43.2	21.6	Patna City	40.6	20.3	32.3	17.8
Utterpara	47.2	47.3	9.4	28.3	Gya	34.2	25.5	31.4	25.3
Howrah	19.5	17.2	15.5	15.0	Arrah	33.5	25.1	9.6	26.2
Bali	10.5	31.6	10.5	28.1	Mozufferpore	19.5	21.9	24.3	17.0
Kishnagar	7.6	16.1	5.8	9.5	Durbhanga	24.4	23.5	54.3	35.4
Ranaghat	...	47.9	18.0	18.0	Chupra	22.1	20.1	11.1	19.1
Santipore	5.5	8.8	3.5	12.3	Bhagulpore	34.4	46.3	38.9	13.6
Jessore	18.4	24.5	24.5	15.3	Monghyr	27.1	32.5	19.0	19.9
Rampore Beaulah	36.8	18.0	28.9	38.8	Purneah	31.2	27.7	27.7	20.8
Darjiling	103.7	118.6	58.9	61.9	Poori	44.1	35.7	44.1	30.9
Dacca	15.5	17.5	24.0	30.5					

It will be seen that last week the highest mortality occurred in the town of Darjiling (51·9) and the lowest in Kishnagar (9·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Durbhanga	... 10·2	Darjiling	... 51·9	Hughli and Chinsurah	... 13·1
Patna	... 10·1	Rampore Beaulah	... 26·3	Poori	... 12·6
Hughli and Chinsurah	... 6·6	Arrah	... 21·5	Dacca	... 11·7
Mozufferpore	... 4·8	Hughli and Chinsurah	21·3	Chittagong	... 11·7
		Durbhanga	... 20·4	Midnapore	... 10·8
				Gya	... 10·2
				Chupra	... 10·1

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 2·9 from cholera, against 5·4 per 1,000 in the preceding week; 7 from small-pox, against the same ratio; 11·1 from fever, against 11·9; 1·7 from bowel-complaints, against 2·3; 3 from injury, against 2; and 5·8 from other causes, against 6·4 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 22·2	Christians	... 7·5	Under 1 year	... 176·2
Females	... 22·9	Hindus	... 23·3	1 and under 5 years	... 34·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	96	Mahomedans	... 20·8	6 " 10 "	... 10·8
		Budhists	... 51·4	10 " 15 "	... 14·6
				15 " 20 "	... 10·9
				20 " 30 "	... 10·3
				30 " 40 "	... 16·6
				40 " 50 "	... 16·2
				50 " 60 "	... 22·1
				60 years and upwards	... 60·1

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 2nd June 1890.

MORTALITY ACCORDING TO—

DISTRICTS.		POPULATION.		BIRTHS.				DISEASE.										SEX.		Ratio of male deaths to every 100 female deaths.											
NAMES OF MUNICIPALITIES.		Total.		NUMBERS OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS FROM—						RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS.		RATIO OF MALE DEATHS TO EVERY 100 FEMALE DEATHS.											
		Males.	Females.	Males.	Females.	Total.	Total.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population in the previous week.	Males.	Females.	Males.	Females.	No female death.	No female death.			
Burdwan	Burdwan	18,083	16,617	84,080	4	8	19	6.1	13.2	18.3	50	13	1	...	4	18	1.5	...	...	...	6.1	27.5	28.4	9	9	25.9	29.2	88	...		
Midnapore	Midnapore	16,927	16,353	33,280	7	8	15	10.8	15.4	23.2	87	8	...	7	15	1.5	...	...	...	...	10.8	23.2	25.6	6	10	15.4	31.3	46	...		
Hughli	Hughli and Chinsurah.	15,538	15,829	31,367	8	7	15	15.1	11.5	24.6	114	13	3	...	8	29	4.9	...	...	...	13.1	47.6	47.6	15	14	49.2	46.6	166	...		
Serampore	Serampore	15,859	12,937	28,796	5	4	9	9.2	7.8	17.7	125	4	1	...	5	11	2.0	...	...	...	9.8	21.6	34.2	5	5	19.2	34.1	79	...		
Uttarpara	Uttarpara	3,946	2,454	6,400	2	1	3	13.9	9.4	26.8	200	3	...	...	1	3	18.9	...	...	...	9.4	28.3	9.4	1	2	17.1	43.2	40	...		
Howrah	Howrah	55,143	37,660	92,803	18	15	27	6.2	8.6	15.8	80	11	4	...	5	21	6.3	...	...	...	2.9	12.0	13.5	16	5	15.7	6.9	227	...		
Bali	Bali	7,535	6,972	14,507	2	1	3	7.0	3.5	10.5	200	5	...	...	...	8	10.5	...	...	...	28.1	10.5	...	4	4	20.5	22.8	59	...		
Kishanpur	Kishanpur	15,369	14,514	29,883	4	2	6	7.6	3.8	11.4	200	4	...	...	1	5	7.6	...	...	...	1.9	9.5	3.8	3	3	7.8	11.0	70	...		
Ranaghat	Ranaghat	4,025	4,553	8,578	4	1	5	25.9	6.0	39.9	400	2	...	...	1	5	13.6	...	...	...	6.0	15.0	18.0	...	...	...	...	...	...
Santipore	Santipore	13,705	15,279	28,984	5	3	7	8.5	3.5	12.0	250	5	...	...	...	7	...	...	...	...	...	15.0	...	...	...	...	...	...	...	...
Jessore	Jessore	4,830	8,465	13,295	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bampos	Bampos	16,706	9,025	25,731	7	4	11	15.4	10.5	25.9	175	10	1	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rajshahy	Rajshahy	4,579	2,429	7,008	1	1	2	7.4	7.4	14.8	100	7	...	...	3	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Darjiling	Darjiling	42,732	37,379	80,111	8	4	12	5.3	3.6	7.6	200	19	7	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	Dacca	7,003	4,056	11,059	3	2	5	11.4	8.3	20.7	150	2	1	...	...	18	47	4.5	...	...	...	...	...	...	...	...	...	...	...	...
Narainganj	Narainganj	13,340	8,795	22,135	4	5	9	9.4	11.7	21.1	80	3	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittagong	Chittagong	8,153	5,353	13,506	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Comillah	Comillah	78,763	81,475	160,237	13	9	22	4.2	2.9	7.1	144	2	1	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Paima City	Paima City	38,200	37,331	75,531	19	12	31	13.0	8.2	21.2	153	19	1	...	...	15	37	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gya	Gya	20,950	22,505	43,455	8	13	16	3.6	13.5	19.1	23	18	2	...	...	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shahabad	Shahabad	23,084	19,458	42,542	7	5	12	8.3	6.1	14.4	140	5	...	...	...	14	43	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Moulteppore	Moulteppore	33,774	32,322	66,096	16	14	30	11.6	11.0	22.6	114	26	1	...	...	45	102	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Durbhanga	Durbhanga	28,116	26,454	54,570	12	3	15	12.1	3.9	16.1	460	7	...	...	...	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saran	Saran	22,640	27,313	57,453	5	9	14	4.5	5.1	19.7	35	8	...	...	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shahulpore	Shahulpore	25,154	29,566	57,220	14	12	26	12.7	10.8	23.5	116	12	4	...	...	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr	Monghyr	8,463	6,553	15,016	4	1	5	13.8	3.3	17.3	400	5	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Purneah	Purneah	13,287	11,537	24,784	4	4	8	8.4	8.4	16.8	100	7	5	...	...	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Footi	Footi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	Total	650,995	510,555	1,001,550	173	152	325	5.3	7.4	15.9	115	227	55	...	...	118	460	...	...	...	...	...	...	...	...	...	...	...	...	...	...

DISTRICTS.		NAMES OF MUNICIPALITIES.		MORTALITY ACCORDING TO—										Age.										RATIOS PER 1,000 OF POPULATION PER ANNUM.												
				Class.					Deaths.					RATIOS PER 1,000 OF POPULATION PER ANNUM.					RATIOS PER 1,000 OF POPULATION PER ANNUM.					RATIOS PER 1,000 OF POPULATION PER ANNUM.												
				DEATHS AMONG—					DEATHS.					RATIOS PER 1,000 OF POPULATION PER ANNUM.					RATIOS PER 1,000 OF POPULATION PER ANNUM.					RATIOS PER 1,000 OF POPULATION PER ANNUM.												
				Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.			
Burdwan	Burdwan	12	6	12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
Midnapore	Midnapore	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	
Hughli	Hughli and Chinsurah	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	19	10	
Serampore	Serampore	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	11	...	
Howrah	Howrah	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	
Nuddea	Nuddea	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	12	9	
Jessore	Jessore	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	8	...	
Rajshahye	Rajshahye	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	
Darjiling	Darjiling	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	3	...	
Bacca	Bacca	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	6	1	
Chittagong	Chittagong	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	1	...	
Tipperah	Tipperah	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Patna	Patna	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	45	12	
Gya	Gya	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	28	11	
Shahabad	Shahabad	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	18	4	
Mounseerpore	Mounseerpore	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	9	5	
Durbhanga	Durbhanga	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	35	10	
Saran	Saran	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	13	6	
Bhagalpore	Bhagalpore	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	11	4	
Monghyr	Monghyr	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	21	1	
Purneah	Purneah	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	
Poori	Poori	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	19	...	
TOTAL	TOTAL	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 2nd June 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of March 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.										Rainfall, 1888-89.		REMARKS.
								Five years, all crops.					Annual leases					GRAND TOTAL.	Rainfall, 1888-89.	
								Pivo years, kharif.	Kharif.	Rabi.	Sauarcane.	Bhadol.	Hof-weather.	Total.						
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Up to end of month.	During end of month.	
1,343	506	776	1,007	248'61	213'14	49,315	49,744	51,437	42	3,968	36	4,066	55,493	27,064	0'08	72'30	0'05	Up to end of month.	70'28	
...	372'82	13'39	8'15	1,876	1,827	2,380	...	215	3	215	2,098	...	1'55	66'47	...	48'69	...	
...	648	125'86	11'18	1,840	2,366	2,191	...	7	...	7	2,168	...	...	...	...	51'38	...	
...	885	125'86	72'28	7,616	9,419	11,141	81	543	3	543	22,631	27,064	0'38	77'31	...	...	...
...	608	79'80	8'05	18,350	18,711	15,148	...	61	...	61	2,433	...	0'38	71'78	No gauge fixed.	38'38	...	
...	727'16	...	...	2,490	2,432	3,392	...	...	88	...	88	34,438	...	0'40	73'08	0'05	39'10	
...	727'16	...	...	33,749	29,893	34,400	...	...	...	...	...	...	0'38	69'84	0'05	51'50	...	
...	135,377	142,753	167,230	123	5,909	156	...	6,179	173,409	...	...	...	...	...
...	
...	145,815	134	2,917	190	...	3,231	146,046	...	...	...	...	...
...	1,411	114	...	61,733	49,769	63,577	21	...	...	21	63,498	...	0'94	47'85	0'00	68'06	36 Days discharging.	
...	523	22	...	3,493	4,619	4,314	440	...	...	440	4,734	...	0'57	51'75	0'00	69'47	22 Days discharging.	
...	483	...	...	...	...	...	...	...	...	...	...	...
...	65,583	64,777	68,349	21	440	...	461	68,810	...	...	...	...	...	...
...	
...	63,374	123	3,969	...	3,491	65,865	...	...	...	...	...	...
...	4,342	1,457	36	50,854	27,929	15,497	2,515*	3,315	140	...	6,358	21,955	...	...	...	...	...
...	1,256	823	103	79,811	51,481	49,091	14,450*	1,457	4	254	3,850	81,651	...	...	...	48'40	...	
...	2,000	888	639	143,494	107,095	107,095	11,424*	9,433	2,222	211	8,373	138,778	...	...	...	39'41	...	
...	1,703	19	3	726	1,598	63,518	...	...	...	50'48	...	
...	1,468	321	213	61,517	61,453	39,785	19,794	3,032	390	287	...	23,433	...	...	...	...	...
...	
...	306,916	335,728	232,740	45,885	18,775	6,112	931	12,437	307,000	...	...	...	...	...
...	
...	290,275	71,135	60,576	3,536	331	9,655	344,588	...	...	...	...	...
...	638,075	633,260	535,679	40,629	25,115	4,595	951	12,037	549,719	...	...	...	...	...
...	
...	290,275	71,371	60,592	3,716	331	9,655	556,769	...	...	...	...	...
...	

G. A. G. SHAW, *Under-Secy. to the Govt. of Bengal.*

CALCUTTA,
The 2nd June 1890.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 31st May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 31ST MAY 1890.			WEEK ENDING SATURDAY, THE 1ST JUNE 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	147	34,575	437	213	73,095	1,317
Jute	7	2,650	46	9	6,020	84
Firewood	95	67,575	983	108	59,000	911
Other articles	685	1,58,333	2,157	687	2,02,550	2,977
Total	884	2,63,133	3,623	1,017	3,40,665	5,289

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the four weeks ended 26th April 1890,
as compared with the same period of 1889.

STAPLES.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING	No.	Rs.	No.	Rs.	No.	Rs.	No.	Rs.
Horses, ponies, and mules	35	389	80	2,072	45	1,683		
Cattle	184	915	114	602	70	313		
Sheep and goats	2,908	2,473	3,186	2,546	278	73		
Other kinds								
BORAX	539	374	289	138	250	236		
Gums and resins								
Caoutchouc (Indian-rubber)								
Chinese and Japanese ware	34	99	15	18	19	81		
Coal and coke, up	9,41,435	2,20,756	7,58,475	2,21,556	1,82,960		30,000	14,300
Do., down	24,79,608	3,24,949	23,10,688	3,32,240				
Cotton, raw	1,12,621	1,14,169	76,305	52,381	36,316	61,788		
Twist and yarn (European)	7,305	9,054	8,086	10,450			981	1,396
Do., (Indian)	13,540	8,116	11,469	7,128	2,071	988		
PIECE-GOODS (European)	1,86,541	2,00,419	1,99,632	2,36,722			13,091	30,503
Do., (Indian)	15,673	8,115	17,114	9,661			1,441	1,535
Asafoetida	173	61	167	86	6			25
DRUGS AND MEDICINES.	1,955	1,021	1,892	1,886	63	35		
Intoxicating drugs (other than opium, i.e., arsenic, blang, ganja, and charas, &c.)	793	683	1,238	994			443	311
Indigo	638	704	547	664	91	40		
Madder or manjhi	4	12	12	8			8	4
Safflower	3,087	2,356	3,655	2,424			668	68
Turmeric	10,296	5,850	11,133	6,220			837	361
Other kinds	10,612	5,854	7,986	3,164	2,626			
Earthenware and porcelain	577	1,090	703	1,177			186	87
Jute, raw	7,179	2,587	1,985	859	5,194	1,528		
Do., manufactured (gunny-bags and cloths)	88,414	58,662	1,33,719	69,345			45,305	30,563
Other fibres, raw	21,125	5,604	12,551	3,485	8,574	2,119		
Do., manufactured	5,151	1,850	2,142	909	3,009	959		
Cocoanuts	3,168	2,298	4,190	2,949			1,022	651
FRUITS & NUTS	31,909	29,755	32,259	21,877			290	1,232
All other kinds	4,18,552	1,14,735	5,43,442	126,205			1,23,890	11,439
Wheat	3,31,987	83,324	2,66,417	49,204	1,25,570	34,120		
GRAM AND PULSES	5,21,677	83,291	6,10,507	1,13,481			88,830	39,190
Rice, husked	14,613	1,909	24,093	2,980			9,480	900
Do., unhusked	67,666	12,848	99,706	20,718			32,040	7,870
Other rain and spring crops	28,192	34,116	25,221	39,406	2,971			5,290
Government stores	4,964	2,145	3,508	1,883	1,456	262		
Gums and resins	28,879	17,428	37,544	24,237			8,665	6,809
HIDES & SKINS	9,671	3,398	9,635	4,044	36		646	
Hides of cattle								
Skins of sheep, goats, and small animals	1,400	806	926	532	474	274		
Horns	3	8	6	12			3	4
LAC	12,036	9,238	9,083	7,066	2,953	2,232		
Do., shell	15,304	5,517	12,064	4,341	3,264	1,276		
Do., stick and other kinds	1,469	2,576	1,279	2,233	190	343		
LEATHER	1,642	2,150	1,725	2,209			83	136
Do., manufactured	17,007	15,444	15,982	15,839	1,025		376	
Liquors	580	336	535	320	45	10		
Mats	1,73,463	22,265	1,83,820	27,841			11,417	5,578
Minerals	24,467	19,386	21,628	15,473	2,839	3,969		
METALS AND MANUFACTURES	1,07,660	73,335	73,072	43,222	34,027	30,071		
Brass and copper	5,322	4,590	6,527	5,575			1,205	1,286
Iron	41,769	21,181	49,981	18,048	725	2,533		
Other metals	35,648	15,515	20,864	8,047	14,524	7,406		
Oils	9,235	1,674	2,167	2,331	7,068			
Opium	22,435	15,616	24,503	12,143	4,930	5,473		
Paints and colours	8,301	6,882	8,107	7,162	104			
PROVISIONS	1,29,458	1,832	1,73,354	2,793			43,896	280
Other kinds	2,71,544	1,16,674	2,53,577	78,313	17,967	38,361		
Railway materials, Construction Account	4,47,938	94,292	4,85,929	86,304			7,988	
Do., ditto, Foreign	80,334	37,079	63,206	26,849	17,258	10,230		
Salt	9,913	5,322	13,730	4,151			3,817	829
SALTPETRE, &c.	6,40,266	1,78,244	6,32,826	1,60,154	7,440	18,090		
Other saline substances	2,77,164	61,744	3,61,684	70,634			84,520	8,800
SEEDS	70,893	2,689	6,903	1,259	4,290	1,430		
Oil-seeds	1,56,773	30,511	1,73,733	41,601			17,960	6,090
Other oil-seeds	6,590	1,462	10,600	2,602			3,710	1,290
Indigo seed	49,323	25,310	40,403	19,380	8,929	6,130		
Tes seed	1,726	1,167	1,404	947	332	229		
Other kinds								
SILK	351	267	354	269			3	2
Do., manufactured (European)	19,404	19,090	22,072	18,175			2,578	
Do., ditto (Indian)	1,99,430	22,117	1,31,933	18,555	67,497	3,562		
Spices	3,38,688	66,522	3,18,429	56,706	20,259	9,816		
Stone and marble	1,02,429	35,121	2,33,931	38,314			1,31,522	3,193
SUGAR	618	425	692	584			174	159
Sugar, refined								
Do., unrefined								
TEA	90,394	45,887	99,941	50,414			9,547	4,527
Do., Foreign	52,511	9,227	39,983	8,002	12,523	1,225		
Tobacco	65,873	4,441	43,076	3,578	22,797	863		
WOOD	1,599	4,196	1,986	1,127			396	
Timber								
Firewood								
Wool, raw								
Do., manufactured (European)	897	746	823	800	74			
Wool, manufactured (Indian)								
Shawls								
Other articles of merchandise	2,86,947	1,02,885	2,65,383	1,73,686	21,564	19,199		
Bones	55,371	15,877	18,691	4,023	34,680	11,854		
Potatoes	24,297	5,857	37,816	7,262			15,000	3,345
Total	91,60,891	25,26,723	92,10,959	24,30,597	6,79,468	2,80,639	7,20,666	1,90,613

General remarks on the fluctuation of principal staples carried over the East Indian Railway during four weeks ended 26th April 1890.

INCREASES.

Cotton.—This satisfactory increase is a continuation of that obtained through the season, despatches having been made chiefly from the cotton-despatching stations above Cawnpore and from stations on the Bombay Baroda and Central India Railway via Agra to Calcutta.

Gram and Pulses.—This was in despatches of gram, khassuric and colly from stations on the "R," "B," and "C" districts to Howrah and Burdwan for stocks and local consumption.

Iron.—The improvement under this head was due chiefly to despatches of cast-iron pipes from Howrah for the water-works at Allahabad, Agra, and Khatmandu in Nepal.

Opium.—This increase was in crude opium sent for manufacture to the Government factories at Patna and Ghazipur from different stations on the "R," "B," and "C" districts.

Railway Material, Foreign.—Chiefly consisted of permanent-way material despatched from Howrah for the Bengal-Nagpur and the Delhi-Umballa-Kalka Railways.

Salt.—There was a decrease in the weight carried attended with an increase in earnings; but there was an increase both in weight and earnings in the despatches of Liverpool salt from Howrah to stations on the Tirhoot State and the Bengal and North-Western Railways. This increase in weight was counterbalanced by decreases in the re-booking of Kheura salt from Patna, and in the receipts of Sambhar salt *via* Agra and *via* Hathras at stations in the North-West Provinces.

Saltpetre.—The increase in this staple was chiefly in despatches from the Tirhoot State Railway *via* Mokameh Ghât, and from *via* Moghalsarai, Ghaziabad and Delhi to Howrah for export to Europe and China.

Seeds.—There was a falling off in the weight carried attended with an increase in earnings; the former was due to heavy despatches last year of short lead traffic in mustard and rape, poppy and linseed to Bombay from stations on the Oudh and Rohilkhand Railway passing Aligarh and Hathras junctions. The increased earnings were obtained from long distance despatches of mustard and rape seeds from stations on the "B" and "C" districts to Howrah for local consumption, and for export to Bombay.

Sugar (refined and unrefined).—There was a decrease in the weight attended with an increase in earnings, the falling off in weight was in short lead despatches from the North-Western Railway *via* Ghaziabad to stations on the Bombay Baroda and Central India Railway passing Delhi; also from the Oudh and Rohilkhand Railway *via* Aligarh and *via* Cawnpore to Agra.

Bones.—The increase in this article was chiefly in despatches from *via* Moghalsarai *via* Asansol, Mokameh Ghât, Agra and Delhi to Bally and Chitpore.

DECREASES.

Piece-goods, European.—The decrease was chiefly in despatches from Howrah to Cawnpore and Delhi.

Gunny-bags.—A limited demand for bagging wheat and seeds accounts for this falling off.

Wheat.—The falling off was chiefly in despatches from stations on the "D" district to Howrah, owing to absence of demand for export due to high rates of exchange.

Rice (husked and unhusked).—This is a continuation of the decrease reported in previous months.

Other rain and spring crops.—The decrease was chiefly in oats from Bhagalpur to Howrah for shipment, and in jowar grain from the North-Western to the Bombay Baroda and Central India Railway *via* Ghaziabad and Delhi.

Hides.—The decrease in despatches from all the principal despatching stations due to short supplies.

Tobacco.—Chiefly in the receipts of this commodity from the Eastern Bengal State and Assam-Bihar State Railways *via* Naihati and Shahabgunge respectively.

ALLEN MEARS, Dy. Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 30th May 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	249,258	2,44,451 6 0	24,66,944 20	5,85,982 14 0	21,534 3 0	8,51,968 7 0	64,664½	98,899½	163,563½
Or per mile of railway ...	.....	160 3 11	.....	384 2 0	14 1 10	558 7 9	.....	.....	.....
For previous 29 weeks of half-year ...	5,209,779	57,33,117 12 0	5,27,05,281 20	1,23,59,008 3 3	4,02,811 14 0	1,84,94,937 14 0	1,310,734	1,936,700½	3,247,434½
Total for 31 weeks ...	5,459,037	57,77,569 2 0	5,51,72,226 0	1,29,44,921 1 3	4,24,346 1 9	1,93,46,906 5 0	1,375,398½	2,035,599½	3,410,998½
COMPARISON.									
Total for corresponding week of previous year ...	261,771½	2,40,927 5 2	50,55,483 19	6,86,328 5 6	20,347 3 3	9,47,602 13 11	62,448	112,84½	175,293
Per mile of railway corresponding week of previous year ...	.....	157 14 11	.....	449 14 6	13 5 5	621 2 10	.....	.....	.....
Total to corresponding date of previous year ...	5,622,990	67,04,385 7 2	5,98,59,515 10	1,31,34,898 4 4	3,61,892 9 6	1,97,01,176 5 0	1,375,900	2,683,455	3,462,354

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 25TH MAY 1889.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 24TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,525½	Rs. 9,47,603	621	1,525½	Rs. 8,51,968	558	1,525½	Rs. 76,75,203	621	1,525½	Rs. 71,75,318	558	.....	Rs. 3,96,975

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,338	5,915 7 0	61,022 10	2,980 0 0	59 7 0	8,954 14 0	1,513	881	2,394
Or per mile of railway ...	233	103 6 8	892 0	53 1 7	1 0 7	155 8 10	.....	.....	.....
For previous 20 weeks of half-year ...	277,347	1,42,589 9 0	9,94,213 0	64,675 15 0	821 4 0	2,08,086 12 0	33,032½	14,860	47,892½
Total for 21 weeks ...	290,685	1,48,505 0 0	10,45,235 10	67,655 15 0	880 11 0	2,17,041 10 0	34,545½	15,741	50,286½
COMPARISON.									
Total for corresponding week of previous year ...	9,693½	4,218 12 2	80,103 20	3,726 1 0	41 0 0	7,985 13 2	1,581	1,061	2,642
Per mile of railway corresponding week of previous year ...	169½	73 12 1	1,358 0	63 2 3	0 11 6	139 9 10	.....	.....	.....
Total to corresponding date of previous year ...	294,189	1,55,769 10 0	9,56,904 20	54,721 4 0	1,524 8 0	2,12,615 6 0	37,138	15,700	52,838

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 25TH MAY 1889.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH MAY 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.		Total increase in 1890.		Total decrease in 1890.	
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.		Rs.		Rs.
57½	7,986	140	57½	8,935	157	57½	74,421	57½	88,411	193	13,990		.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,849	4,815 2 0	9,375 10	370 3 0	9 0 0	5,195 5 0	898	70	968
Or per mile of railway ...	.....	216 7 3	.....	16 10 2	0 6 6	233 7 11	.....	.....	.....
For previous 20 weeks of half-year ...	446,212	1,19,851 1 0	3,66,717 30	9,733 12 0	192 10 0	1,29,777 7 0	17,755	2,148	19,903
Total for 21 weeks ...	465,061	1,24,667 3 0	3,16,093 0	10,163 15 0	201 10 0	1,34,972 12 0	18,653	2,218	20,871
COMPARISON.									
Total for corresponding week of previous year ...	19,945½	5,694 3 11	7,583 0	293 7 0	8 9 9	5,396 4 8	911	67	968
Per mile of railway corresponding week of previous year ...	.....	228 8 1	.....	13 3 0	0 6 2	242 1 3	.....	.....	.....
Total to corresponding date of previous year ...	485,343½	1,27,595 0 6	2,60,389 10	7,232 5 0	165 7 6	1,34,992 13 0	19,341	1,278	20,614

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 25TH MAY 1889.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH MAY 1889.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.		Total increase in 1890.		Total decrease in 1890.	
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.		Rs.		Rs.
22½	5,396	242	22½	5,195	233	22½	53,877	22½	63,709	302	.....		118

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 17th May 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	137,740	68,570 0 0	5,27,170 0	88,330 0 0	13,460 0 0	1,70,360 0 0	22,784	28,214	51,098
Or per mile of railway ...	184	92 0 0	706 0	118 0 0	12 0 0	212 0 0	...	...	...
For previous 19 weeks of half-year ...	3,130,050	*14,71,856 0 0	1,00,27,783 0	19,64,217 0 0	3,67,912 0 0	*38,03,985 0 0	425,375	585,368	*1,010,743
Total for 20 weeks ...	3,273,790	15,40,426 0 0	1,14,54,953 0	20,52,547 0 0	3,81,372 0 0	39,74,345 0 0	448,159	612,582	1,061,841
COMPARISON.									
Total for corresponding week of previous year ...	131,253	58,855 0 0	5,53,694 0	92,028 0 0	20,738 0 0	1,71,021 0 0	21,588	24,836	46,424
Per mile of railway corresponding period of previous year ...	195	87 0 0	823 0	137 0 0	12 0 0	226 0 0	...	...	...
Total to corresponding date of previous year ...	2,937,583	14,74,291 0 0	1,00,81,003 0	16,81,006 0 0	3,73,832 0 0	35,20,189 0 0	429,916	484,459	914,375

* Audited up to week ending 29th March 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 18TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 18TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,71,021	255	747	1,70,360	228	673	11,23,681	238	747	12,20,338	235	1,05,657	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,390	5,109 0 0	41,820 0	3,270 0 0	100 0 0	11,470 0 0	3,627	2,045	5,672
Or per mile of railway ...	202	63 0 0	335 0	26 0 0	1 0 0	92 0 0	...	...	...
For previous 19 weeks of half-year ...	*541,033	1,82,483 0 0	*10,10,972 0	58,033 0 0	1,259 0 0	*2,41,775 0 0	67,031	38,466	*105,497
Total for 20 weeks ...	566,233	1,90,583 0 0	10,52,792 0	61,303 0 0	1,359 0 0	2,53,245 0 0	70,658	40,511	111,169
COMPARISON.									
Total for corresponding week of previous year ...	27,343	8,849 0 0	55,956 0	3,001 0 0	46 0 0	12,496 0 0	3,616	2,026	5,672
Per mile of railway corresponding period of previous year ...	219	71 0 0	448 0	29 0 0	.....	100 0 0	...	...	...
Total to corresponding date of previous year ...	276,402	1,97,777 0 0	11,35,967 0	65,534 0 0	4,785 0 0	2,68,096 0 0	73,373	38,762	112,075

* Audited up to week ending 29th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 18TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 18TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,496	100	125	11,470	92	125	90,355	103	125	82,786	95	.....	7,569

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,600	4,690 0 0	15,830 0	1,779 0 0	80 0 0	6,450 0 0	2,414	600	3,104
Or per mile of railway ...	186	53 0 0	184 0	21 0 0	1 0 0	75 0 0	.....	.....	.....
For previous 19 weeks of half-year ...	*333,001	1,06,502 0 0	*4,79,642 0	44,938 0 0	3,261 0 0	*1,54,701 0 0	45,119	15,258	*60,377
Total for 20 weeks ...	346,001	1,11,102 0 0	4,95,492 0	46,708 0 0	3,341 0 0	1,61,151 0 0	47,533	15,948	63,481
COMPARISON.									
Total for corresponding period of previous year ...	19,322	3,751 0 0	27,067 0	2,037 0 0	96 0 0	5,884 0 0	2,479	625	3,104
Per mile of railway corresponding period of previous year ...	224	44 0 0	315 0	23 0 0	1 0 0	68 0 0	.....	.....	.....
Total to corresponding date of previous year ...	310,507	94,739 0 0	2,55,601 0	20,515 0 0	3,238 0 0	1,18,492 0 0	49,029	14,715	63,735

* Audited up to week ending 29th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 18TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 18TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,884	68	86	6,450	75	86	35,835	60	86	47,550	79	11,715	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th May 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,984	1,037 0 0	12,797 0	730 0 0	17 0 0	1,784 0 0	569	254	763
Or per mile of railway ...	110	38 0 0	470 0	26 0 0	1 0 0	63 0 0	.....	.....	.....
For previous 18 weeks of half-year ...	61,905	22,291 0 0	2,35,461 0	14,928 0 0	1,787 0 0	39,346 0 0	9,508	9,150	18,658
Total for 19 weeks ...	64,979	23,328 0 0	2,48,258 0	14,998 0 0	1,804 0 0	40,130 0 0	10,017	9,410	19,427
COMPARISON.									
Total for corresponding week of previous year ...	2,817	1,065 0 0	7,397 0	466 0 0	100 0 0	1,631 0 0	560	254	763
Per mile of railway corresponding week of previous year ...	103	39 0 0	271 0	17 0 0	6 0 0	62 0 0	.....	.....	.....
Total to corresponding date of previous year ...	65,610	24,838 0 0	2,16,936 0	13,298 0 0	1,698 0 0	39,544 0 0	10,034	8,628	18,662

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 18TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 18TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,601	62	27½	1,784	65	27½	11,504	60	27½	11,417	60	.....	89

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 24th May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	40,084	15,010 0 0	2,29,105 0	25,829 0 0	2,946 0 0	43,785 0 0	4,023	8,348	15,271
Or per mile of railway ...	147	55 0 0	839 0	95 0 0	3 0 0	153 0 0*	.....	.....	.....
For previous 19 weeks of half-year ...	926,358	3,81,216 0 0	50,24,300 0	5,78,390 0 0	62,101 0 0	10,21,707 0 0	101,331	188,089	289,420
Total for 20 weeks ...	966,442	3,96,226 0 0	52,53,465 0	6,04,219 0 0	65,047 0 0	10,65,402 0 0	106,254	196,437	302,691
COMPARISON.									
Totals for corresponding week of previous year ...	40,725	15,050 0 0	2,25,067 0	19,412 0 0	4,787 0 0	39,258 0 0	4,669	6,689	11,349
Per mile of railway corresponding week of previous year ...	149	55 0 0	861 0	71 0 0	2 0 0	128 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	990,807	3,39,453 0 0	31,03,656 0	3,06,116 0 0	79,756 0 0	7,25,325 0 0	110,046	110,088	220,134

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 25TH MAY 1889.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	30,258	144	273	43,685	160	273	3,12,946	143	273	3,66,273	168	53,327	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 3rd May 1890	...	...	13,571
Corresponding period of 1889	...	...	12,484
Increase	...	...	1,087
Receipts per mile for week ending 3rd May 1890	...	...	Rs. A. P. 266 1 7
Corresponding period of 1889	...	...	244 12 8
Increase	...	...	21 4 11
Receipts from 1st January to 3rd May 1890	...	...	1,65,108
Corresponding period of 1889	...	...	1,66,116
Decrease	...	...	1,007

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 10th May 1890	...	...	12,759
Corresponding period of 1889	...	...	13,535
Increase	...	...	776
Receipts per mile for week ending 10th May 1890	...	...	Rs. A. P. 250 2 10
Corresponding period of 1889	...	...	265 6 5
Decrease	...	...	15 3 7
Receipts from 1st January to 10th May 1890	...	...	1,77,869
Corresponding period of 1889	...	...	1,79,651
Decrease	...	...	1,782



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JUNE 11, 1890.

OFFICIAL PAPERS.

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ORDERS ON THE MEMORIAL AGAINST THE ASSESSMENT PROVISIONS OF THE CALCUTTA MUNICIPAL CONSOLIDATION ACT OF 1888.

MUNICIPAL DEPARTMENT (MUNICIPAL).

Darjeeling, the 7th June 1890.

RESOLUTION.

READ—

A memorial presented to the Lieutenant-Governor on the 9th May 1890 by Maharajah Sir Narendra Krishna Deb, K.C.I.E., on behalf of the Calcutta Rate-payers' Committee, praying for certain amendments in the Calcutta Municipal Consolidation Act, II (B.C.) of 1888.

Read also—

A note prepared by the Hon'ble Sir Henry Harrison, Kt., with its appendices, dated 26th May 1890, commenting on the memorial.

This memorial of the rate-payers of Calcutta, praying for the amendment of the assessment clauses of the Calcutta Municipal Consolidation Act of 1888, has been signed by a very large number of residential house-owners, and there are included among the signatories the names of some of the most distinguished and influential citizens of Calcutta.

2. The memorial raises questions of great importance, affecting the justice and equity of municipal taxation, which have lately been under the special consideration of the Legislature, and impugns some of the fundamental provisions of a law which was passed after full deliberation, and has only been for a little more than a year in force. The arguments contained in it were discussed in the Bengal Legislative Council, and were again repeated in a memorial addressed to His Excellency the Governor-General in Council, which is referred to, and largely quoted from, in the present memorial. Those arguments were rejected, and it was deliberately decided that the Act should be left to its operation. Notwithstanding these facts the Lieutenant-Governor, having regard to the weight and influence of the signatories, and to the strong feeling which, within His Honour's cognizance, the assessment sections of the new Act have excited in Calcutta, has deemed it advisable to take the present opportunity to enquire again thoroughly into all the circumstances which led to the enactment of the provisions of the law to which the memorialists object, and to place on record in a complete form the reasons which, in his opinion, rendered legislation on the subject imperatively just and necessary. With this object a copy of the memorial was transmitted to the Hon'ble Sir Henry Harrison, the Member of the Bengal Legislative Council who was in charge of the measure, for such observations as he might wish to make. The reply received from him, which is herewith published with the memorial, is an able, elaborate, and conclusive vindication of the provisions of the existing law.

3. Under the old law [section 104 of Act IV (B.C.) of 1876] it was enacted as follows:—

"The estimated gross annual rent at which any house or land liable to rate under this Act might reasonably be expected to let from year to year shall, for the purposes of any rate to be imposed under this Act, be held and be deemed to be the annual value of such house or land."

The section of the present law [122 of Act II (B.C.) of 1888] to which the memorialists take exception is as follows:—

"For the purpose of assessment under this Act, the annual value of land and the annual value of any house built for letting purposes, or ordinarily let, shall be the gross annual rent at which such land or house might reasonably be expected to let from year to year, less in the case of a house, an allowance of 10 per cent. for the cost of repairs, and for all other expenses necessary to maintain the house in a state to command such gross rent."

"The annual value of any house not built for letting purposes, and not ordinarily let shall be 5 per cent. on the sum obtained by adding the estimated present cost of building the house, less a reasonable amount to be deducted on account of depreciation, if any, to the estimated value of the land valued with the house as part of the same premises."

"When a house is occupied by the owner under such exceptional circumstances as renders a valuation of 5 per cent. of the cost of building, less depreciation, excessive, a lower percentage may be taken."

4. The prayer of the memorialists is directed against that portion of the new section which relates to the assessment value of houses built for residential purposes. The exact words of the memorial are—

"The amount spent in the building or enlargement of a family dwelling-house affords therefore, in the vast majority of cases, no criterion as to the owner's means or position in life, and should not, it is submitted, be adopted as the basis of taxation. Such houses should be rated at the annual letting value, to be determined with regard to the purposes for which they were built and for which they are capable of being used."

And again—

"Your memorialists believe that there is no difficulty in practice, in the generality of cases, to ascertain the letting value of any house property. They submit that such letting value is the fair and proper basis of assessment, and it is unaccountable to them why, in the case of a residential house, the cost price of the building, together with the value of the land on which it stands, should be taken as the basis of assessment; while, in the case of tenanted houses, rent should be considered as a fair criterion for assessment."

5. The English law on the subject of rating is that the net annual value of hereditaments shall be the rent at which they may reasonably be expected to let, after deducting the probable average cost of repairs, insurance, &c. The memorialists desire to see the English law applied in Calcutta. They ignore, however, the radical difference between England and India in sentiments, manners, and custom. In England there is no prejudice against living in a hired house, the houses let on hire in a street are generally more numerous

than those in the occupation of their owners, and there is no difficulty whatever in assessing the reasonable rent of a residential house with reference to the rent actually paid by similar houses, with similar advantages, in the immediate locality. But in India, where there is the strongest possible prejudice against living in a hired house, and all the houses over large areas, with very few exceptions, are occupied by their owners, it is impossible to institute any fair standard of comparison with the rent of houses let on hire. If such a standard were adopted, if, that is to say, residential houses were compared with houses built for letting on the basis of their cost, accommodation or cubic feet of material, respectively, it would have led to an enhancement of assessment of residential houses much greater than it is now under the present Act. It became necessary therefore to adopt some other standard of value for residential houses in Calcutta, and after full consideration it was decided that a fair valuation of this class of houses would be attained by the assumption of an annual payment of 5 per cent. on the true value of the house and land as the hypothetical rent, with a lower percentage to meet exceptional cases.

6. According to the argument of the memorialists, residential houses should be compared, not with houses built for the purpose of letting, but with the few residential houses which the owners have for some reason or other been compelled to leave, and for which they have been compelled to obtain such tenants as they can get with no market and all the prejudices against this form of living. It is assumed in the memorial that the person occupying his own house is not a tenant, and that some other tenant must be found, and that the rent this other tenant would pay should be ascertained and fixed as the basis of valuation. Although there is in the parts of Calcutta to which reference is made no efficacious demand for hiring family houses; although it is admitted that the prejudice against maintaining one's family in a hired house is so strong that "a person would rather have two or three cottahs of his own with tiled huts to live in than live in a hired pucca house," although the feeling on this subject is so marked that even buying a house ready built by some one else is regarded as less desirable than building one for one's self, and in consequence a house built as a family residence is at so marked a disadvantage in finding any tenant, other than the owner, compared with all other classes of houses, as to depreciate its value by about one-half when tried by this test alone, it is nevertheless urged that for purposes of municipal assessment such a house should be valued at the amount of rent which it would obtain if let to another person. This argument, as Sir Henry Harrison points out, is as fallacious from the standpoint of English law on the subject of rating as it is contrary to fairness and justice. The authorities cited conclusively show that, according to English procedure, when a property is not usually let, a hypothetical tenant is assumed; and the owner of the house, if he actually does occupy it, is regarded as among the possible hypothetical tenants, and the annual value of the tenancy to him is then calculated in exactly the same way as the new section of the Act calculates it. This is the only manner in which the real value of houses which are never let on hire can be ascertained in comparison with houses built for letting purposes. The purpose for which the house is built must be looked to in both cases. In the latter case the letting value is a fair criterion; in the former it is not.

7. It is an incontrovertible principle that the taxation of property for the purposes of municipal administration should be proportioned to its value. But residential houses in Calcutta have hitherto not been taxed on this principle, and it is precisely because these houses were not being rated at a reasonable value, having regard to the purposes for which they were built—occupation by their owners—but at a letting value, having regard to a totally different purpose, *i.e.* hiring by a person not the owner, to whom they were never let, that the new section of the law was deemed necessary. Sir Henry Harrison demonstrates with much force in his special note on the subject that it is the owners and occupiers of their own houses who paid least and for whom most was done under the old law. The statistics he furnishes show that, as a whole, they derive far more by way of municipal benefits than they pay; while they have been assessed at very much less than the fair amount due from them. They show that the mercantile wards of the town pay a large portion

of the rates and taxes for which the residential wards receive benefits, and that for all other sources of municipal income outside rates the incidence of taxation is as much against the trading and mercantile community as it is in the matter of rates. In other words, the interests of the trading and commercial community have in practice (though not of course deliberately) been rendered subservient to those of the ground landlords. It is well known that during the past ten or fifteen years the value of land has doubled or quadrupled in value, while the assessment value, even under the operation of the new Act, affords an increase during six and a quarter years of only 22·8 per cent. It was to remedy what Sir Henry Harrison justly calls "the scandal of the under-valuation of houses occupied by their owners" that the new section of the law was passed. The Lieutenant-Governor recognises that those persons who have not hitherto realised how much they have previously been under-assessed in comparison with less favoured classes may not unnaturally protest against a law which, in providing for a more equal system of assessment, imposes increased burthens on themselves; but the Lieutenant-Governor is thoroughly satisfied that the new system is more equitable than the old one, and that it would be improper for the Government, notwithstanding the high position of the signatories and the importance which he attaches to their protest, to hesitate in upholding the efforts of the Legislature to equalise the incidence of taxation.

8. Under the old law no deduction was allowed for repairs. It is estimated therefore that under the old law the so-called owners, who are also the occupiers of huts in bustees, were over-assessed by about 25 per cent.; that the occupiers and owners of houses, offices, shops and places of business, built for letting purposes, were over-assessed by about 15 per cent.; that owners of bustee lands and the owners and occupiers of large public buildings were on the whole correctly assessed, though there is reason to believe that in some cases such buildings were too highly valued; while owners living in their own houses, built for such occupation and not for letting purposes, were under-assessed by 30 to 50 per cent. if tested by the rule for valuing Government buildings, and by even more than this if the Bombay rule were followed, and their value were tested by comparison with the accommodation, cost or cubical space of houses built for letting purposes. These inequalities are rectified by the new Act, which allows a deduction for repairs in the case of letting houses, and in the case of residential houses imposes a reasonable valuation. In regard to this valuation, Sir Henry Harrison writes:—"The advantage of the proposal adopted by the Act is that it carries on the face of it its own justification. In all ordinary cases the cost of building, *plus* the value of the land occupied by the tenement, obviously determines the reasonable rent, and even the most superficial acquaintance with Calcutta enables any one to know that a net return of 5 per cent. is an extremely moderate return for money invested in house property. If, therefore, this standard, when applied to houses occupied by their owners, greatly enhances the valuation, the result carries with it its own evidence of previous under-valuation." Even under the provisions of the new Act, residential houses will, if anything, remain somewhat under-assessed, while letting houses, valued according to their actual gross rental, with an allowance of only 10 per cent. for repairs, will still be somewhat over-assessed. The result of recent legislation is nevertheless a decisive approach to fairness and equal taxation. It is proposed by Sir Henry Harrison, in the 40th paragraph of his note, that when the whole town has been re-valued under the new law, the equity of the valuations should be tested by a Committee of Engineers and Surveyors. "If," he writes, "they find that residential houses, occupied by their owners, are proportionately more highly valued than other classes of buildings, let redress be promptly given; but if, as I am confident will be the case, the verdict is the other way, then further steps should perhaps be taken to redress the balance; for it is surely intolerable that the group of rate-payers, which, under circumstances of strictly equal rating, must inevitably enjoy far more advantages than they pay for, should not even pay equal rates." In the Lieutenant-Governor's opinion this suggestion is one which may very properly be attended to if the owners of houses built for their own occupation should, when the present revaluation of the town is finished, still be found to maintain that they have been unfairly treated.

9. It is observed in the memorial that the hearing and determining an objection preferred against an assessment made by a subordinate by his executive superior is subversive of the principle of Local Self-Government and can never be satisfactory. Sir Henry Harrison has devoted the last of the appendices attached to his note to a consideration of this question. His weighty remarks deserve the careful attention of all interested in the welfare of Local Self-Government in this country. His conclusion, that if Local Self-Government is to be a success, it is necessary for the Municipal Commissioners to leave all judicial functions to others, and to content themselves with financial and administrative control, meets with the Lieutenant Governor's complete concurrence.

10. The second feature in the new Act to which the memorialists have taken exception is the provision in sections 117, 118 and 119, by which the ground landlord in bustees is required to pay all the rates (one-half of which on account of the land on which the hut stands and the entire consolidated rate on account of the hut he is entitled to subsequently recover from the hut-owner by the same process as the recovery of rent), being allowed a deduction of 2 annas in the rupee for risk and costs of collection. The principal object of this provision is to protect the bustee tenants from the collecting establishments of the Municipality. Sir Henry Harrison's remarks on this aspect of the question deserve careful consideration. "If needed in England, it is needed ten times more in Calcutta, where this is the class habitually most oppressed and most silent under oppression. Under the old law the number of warrants issued in Calcutta annually was between 30,000 and 40,000, the great bulk of course in connection with these poorer rate-payers—100 warrants a day; yet who heard anything of them? Under the new system a single warrant has been issued against a wealthy ground landlord who, with ample means, was openly defying the law, and the whole of Calcutta rings with the event, and a suit in the High Court is the result. Is any comment necessary on such a contrast?" And again—"The ground landlord invests no capital in the bustee (except perhaps for drainage), he risks nothing, he ventures nothing, and he appropriates all the profits of the municipal improvements. The value of bustee land—since the bustees have been improved by the Corporation, have had roads made through them, bathing platforms erected in them, and their conservancy attended to—has gone up from 50 to 300 per cent. At a most moderate computation, the ground rents of bustees in Calcutta have increased by five lakhs annually during the last six or seven years. The landlords have literally grown rich in their sleep, and can they, forsooth, complain of injustice because, for the well-being of the community, they are required, as in England, to advance the rates for the poor tenants?" No additional remarks from Government are required to justify these sections of the law.

11. For the rest the Lieutenant-Governor has only to express his general agreement with the remarks recorded by Sir Henry Harrison in the memoranda submitted by him to Government. The whole of the papers will now be published in the *Calcutta Gazette*.

ORDER—Ordered that a copy of this Resolution, and of the papers recited in the preamble, be published in the *Calcutta Gazette*.

Ordered also that a copy be forwarded to Maharajah Sir Narendra Krishna Deb, K.C.I.E., on behalf of the memorialists, for information.

Ordered also that a copy be forwarded to the Chairman of the Calcutta Corporation for information and for communication to the Commissioners.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

Date: Calcutta, the 9th May 1890.

From—MAHARAJA SIR NARENDRA KRISHNA DEB, K.C.I.E., President, Rate-payers' Committee,

To—The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to forward, for the consideration of His Honour the Lieutenant-Governor, the accompanying memorial of the rate-payers of Calcutta, praying for the amendment of the Calcutta Municipal Consolidation Act of 1888.

To—THE HON'BLE SIR STEUART BAYLEY, K.C.S.I.,

Lieutenant-Governor of Bengal.

The humble memorial of the undermentioned rate-payers of Calcutta.

SHEWETH,

That your memorialists, who are rate-payers of Calcutta, venture to approach your Honour with their representation in regard to some of the provisions of the Calcutta Municipal Consolidation Act of 1888.

Your memorialists at the time of the passing of this Act apprehended serious difficulties in the working of it. Their apprehensions they are sorry to find were not unfounded.

That by the latter part of section 122 of the present Municipal Act, an entirely new principle of assessment of house properties was introduced, cannot be denied. The prior Act directed the Commissioners to proceed upon the equitable and uniform basis of annual letting value, whether the house was built for letting or residential purposes. By the present Act this principle of assessment is, in the case of houses not built for letting purposes, and not ordinarily let, abandoned, and a new principle of assessment introduced, based on the estimated present cost of building a house less a reasonable amount for depreciation, if any, added to the estimated value of the land. So far as your memorialists have been able to ascertain, this innovation was attempted to be justified by the statement that houses built for the residence of the owners were not sufficiently taxed, whilst houses built for letting purposes occupied by tenants were over-assessed; your memorialists are unable to subscribe to the statement. The joint family system is an essential characteristic of the Hindu social order, and is largely adopted by the Mahomedan residents in this country. It is not, as is observed by John Stuart Mill of large families in England, the result of a person's own choice, and is not, so far as public interest is concerned, a thing to be discouraged, but rather promoted. The system of family life obviates by its existence almost entirely the necessity of any Poor Law. The amount spent in the building or enlargement of a family dwelling-house affords, therefore, in the vast majority of cases, no criterion as to the owner's means or position in life, and should not, it is submitted, be adopted as the basis of taxation. Such houses should be rated at the annual letting value to be determined with regard to the purposes for which they were built, and for which they are capable of being used.

Your memorialists anticipated, though not to the fullest extent, the mischievous effect of this innovation in the law, as is apparent from the memorial of the rate-payers of Calcutta to His Excellency the Earl of Dufferin, then Viceroy and Governor-General of India, submitted on the 6th day of June 1888, in which it was stated as follows:—

"Your Excellency's memorialists would respectfully call Your Excellency's attention to the provisions of section 122 of the Bill, which have created little less than a panic among the bulk of Hindoo rate-payers who for the most part live in their own ancestral houses. A proviso has been added in the course of the discussion in Council that 'under such exceptional circumstances as renders a valuation of five per cent. excessive, a lower percentage may be taken.' But Your Excellency's memorialists crave leave to point out that the proviso, because it will deal with exceptional cases, will not afford the relief that is sought for. The principle of assessment which is here enforced is an innovation in the law of the land, and is apparently opposed to the principles of English law as interpreted by the High Court in the case of *Nando Lal Bose versus the Corporation of Calcutta*. Sir Richard Garth in that case said:—'The principle of rating on which the Commissioners are directed to proceed is the same which is adopted in England; and similar difficulties arise there in the case of gentlemen's parks and mansions which are laid out for residential purposes and not for sale or letting. But such properties are nevertheless constantly rated upon the basis of their annual letting value.' And Mr. Justice Wilson in the same case said—'But the whole system of taxation and assessment under the Act in question is obviously borrowed in its general outlines from English Rating Acts.' But be that as it may, this new provision in the Bill will prevent

people from building large houses which are as much a source of comfort as they are a means for the preservation of health. The change in the law is sought to be justified on grounds of Political Economy, and the high authority of John Stuart Mill is quoted in support of it. The following passage is confidently cited as one that thoroughly bears out and justifies the changes in this section:—

“The public were justly scandalised on learning that residences like Chatsworth or Belvoir were only rated at the imaginary rate of perhaps £200 a year, under the pretext that, owing to the great expense of keeping them up, they could not be let for more, probably even they could not be let for that, and if the argument were a fair one they ought not to have been taxed at all. But a house tax is not intended as a tax on incomes derived from houses, but on expenditure incurred for them. The thing which it is wished to ascertain is what a house costs to the person who lives in it, not what it would bring in if let to some one else. When the occupier is not the owner, and does not hold on a repairing lease, the rent he pays is the measure of what the house costs him; but when he is the owner, some other measure must be sought. A valuation should be made of the house, not what it would sell for, but what it would cost for rebuilding it, and the valuation might be corrected by an allowance for what it had lost in value by time, or gained by repairs and improvements.”

“But Your Excellency’s memorialists beg leave to point out that there has been in this instance only a partial application of the principles of Political Economy. The Hon’ble Member in charge of the Bill, who quotes the above passages from Mill’s Political Economy in support of his view, omits to quote the passages which immediately follow, and which bear distinctly in favour of the rate-payers’ point of view, but which Your Excellency’s memorialists regret to find have not been embodied into law. John Stuart Mill goes on to remark:—

“The amount of the amended valuation would form a principal sum, the interest of which at the current price of the public funds would form the annual value at which the building should be assessed to the tax. As incomes below a certain amount ought to be exempt from income-tax, so ought houses below a certain value from house-tax on the universal principle of sparing from all taxation the absolute necessities of healthful existence” (Mill’s Political Economy, Book V, Chapter III, page 504, People’s Edition).

“If these principles are to be applied, it is obvious that the valuation should be fixed at 4 (which represents the current rate of interest on Government Securities) and not at 5 per cent., as has been fixed under the Bill; and further, houses below a certain value should have been exempted from the house-tax altogether, which has not been done. Your memorialists venture respectfully to urge that it is an unfair application of economic principles to enforce them only when they operate to the prejudice of the rate-payers, and impose upon them a heavier burden of taxation; but to omit them when they tend to afford to the poorer section of the community the relief to which they are fairly entitled. If it is thought necessary in equity to make the richer section of the community pay, what it is alleged they had not hitherto done, their fair share of contribution to the Municipal taxes, is it not demanded, Your Excellency’s Memorialists venture “to enquire, by the highest justice, that the poorer classes should obtain that relief “which the principles upon which this section of the law is ostensibly based have provided “for them? Your Excellency’s Memorialists will not hesitate to affirm that it is a singularly “unfair piece of legislation which in the name of economic principles seeks to lay a heavy “burden upon the well-to-do classes, but will not provide for that relief to the poorer classes “which these principles distinctly contemplate.”

The mischievous tendency of this provision of the Law foreshadowed in the aforesaid Memorial has been realised in fact, and it most fully appears from the recent assessment of House property in Calcutta. The annexed table marked A shows the extent of increase made in ward No. 6, the total amount of increase in 1,177 cases only being from Rs. 5,54,866 to Rs. 6,81,319; and Your Memorialists submit that an examination of assessment books will show that the bulk of the increase has been in cases of small house property. A few cases set forth in the table marked B will show to what extent the assessment of small houses in ward No. I is proposed to be increased. Can it be for a moment supposed that these small houses had been underassessed under the old Law? Your Memorialists are confident that it is impossible to come to any such conclusion, and if that be conceded, it seems to Your Memorialists that the assessment of such houses on the basis laid down in the Act is indefensible. In this connection, Your Memorialists solicit Your Honour’s attention to the two cases in the annexed table marked C, which show how the application of the principle of valuation for residential houses has resulted in the imposition of greater burdens on owners as contrasted with the amount of tax their co-sharers have to pay monthly for similar property let out to tenants but not occupied by them. Numerous examples of a similar nature can be added. Instances of houses purchased for residential purposes, but which for some accident have not been so used, but have been let out, will lead, from the rate of rent realised, to the same conclusion. Your Memorialists regret that the provisions in section 122 as to residential houses were laid down without any enquiry as to the real

state of things, but were based upon a supposed principle (not applicable to the people of this country) that no one spends more for a house than what would yield at least five per cent. if the house were let out.

Your Memorialists beg further to submit that the procedure laid down by the section now under consideration, for the valuation of residential houses, is so complex in its character as to render it impossible to ensure an equitable and satisfactory working of it. With reference to the estimated present cost of the building, it is to be observed that the cost of building varies according to the quality of materials used, and that, at the time of the assessment, it is in most cases quite impossible to find out the quality, and, therefore, the present value of such materials. One house, seemingly as good as another, may be worth much less, though both built at the same time; and when a house built many years ago has to be valued with reference to the price of the materials ruling at the present time, the chances of mistake to the prejudice of the owner must be great; whilst, the deduction for depreciation being made subject to no settled rule, the liability to mistakes on the part of the Executive Officers of the Corporation to the prejudice of the owners is greater. The provision in the present law was said to have been necessary on account of the difficulty in ascertaining the annual letting value of houses occupied by the owners, but it is apparent the difficulty has now been considerably enhanced on account of a large number of unknown factors to ascertain each of which elaborate and detailed enquiry is needed.

That under these circumstances the assessment of House property in Calcutta has caused widespread discontent amongst the house-owners of Calcutta, which Your Memorialists deem it necessary to point out to Your Honour. They respectfully submit that, while in the course of 9 years, *i.e.*, from 1874 to 1884-85, only 1,805 appeals were preferred from all Calcutta against the assessments made by the assessor (as will appear on reference to the table marked D), yet in the short space of one year in respect of assessment of only *two* of the wards of Calcutta more than 1,000 petitions of objections have been filed by owners of residential houses; and if Your Honour be pleased to direct an enquiry as to how such objections are being disposed of, it will be seen that the modification of the previous Law by section 136 of the present Act as to the hearing and disposal of objections has, in a large number of cases, resulted practically in a denial of justice.

The hearing and determining of an objection, preferred against an assessment made by a subordinate, by his executive superior, is, Your Memorialists would venture to say, subversive of the principle of local self-government and can never be satisfactory. Even the provision, as in the original Bill, of a Bench of not less than three Commissioners presided over by the Chairman or Vice-Chairman to hear appeals would have minimised the evil now complained of.

Your Memorialists believe that there is no difficulty in practice in the generality of cases to ascertain the letting value of any house property; they submit that such letting value is the fair and proper basis of assessment, and it is unaccountable to them why in the case of a residential house the cost price of the building, together with the value of the land on which it stands, should be taken as the basis of assessment; while in the case of tenanted houses rent should be considered as a fair criterion for assessment.

Your Memorialists now crave leave to refer to another provision of the Law, which is unduly pressing upon the bustee owners of Calcutta. They refer to section 117 of the said Act. When there was a discussion in Your Honour's Council on the subject, the Hon'ble Sir Charles Paul, Advocate-General of Bengal, was pleased to say as follows:—

"I wish to explain that the precedent which the Hon'ble Member in charge of the Bill relies upon does not apply in this case. In England, all house property belongs to the landlord; in this country, huts belong to the tenants. Everything put upon land in England belongs to the landlord; here huts belong to the tenant, and, therefore, I submit, it is unfair to make the landholder pay for property of which he is not the owner."

Your Memorialists deeply regret that notwithstanding this opposition by the highest Law officer of the Crown, the section was passed into Law by your Honour's Council.

Your Memorialists submit that the means possessed by the Municipality to enforce payment of the bustee bills from the occupiers of the bustee land are ample compared with the limited powers which land-owners have. The former

have at its discretion the power of distress warrant and summary sale after a short notice which involve charges payable by the debtor, whereas the latter is referred to the ordinary law of debtor and creditor in reference to which a former Chief Justice of the High Court is reported to have said that "the trouble of the creditor begins with the decree" which at an average seldom realises more than half of the claim. It is undeniable that the Corporation with such large powers has not always been successful in collecting the rates, without having recourse to the extraordinary powers which the law has conferred on it; and if so, how still more difficult must it be for private individuals to undertake these collections? Your Memorialists venture to submit that the modification of the Law exempting those whose duty it is to collect the taxes directly from the parties liable to pay the same is a positive injustice. Even the Government in the collection of land revenue with the sunset and the certificate laws to back it has never on an average collected more than 92 to 95 per cent. of its dues. Your Memorialists submit that the remedy does not lie in transferring responsibility on those who are not reasonably liable to it. Under the law the occupier or tenant is to pay the taxes due on his holding, but this transference of the responsibility to the owner is a positive injustice, particularly adding the losses incident to civil suits on persons who are not the rightful debtors and have no concern with the same and who have not the means of recouping their loss.

Your Memorialists fail to see what principle of fairness has guided the Legislature in framing this section, the object of which evidently is to relieve the Municipality, at the expense and annoyance of the land-owners, who, as a rule, experience great difficulty in recovering their dues from their tenants; and Your Memorialists feel that this section of the Law has entailed serious hardship upon bustee-owners generally, and particularly upon owners of small bustees of limited means, for under the law any plot of bustee land measuring 10 cottas and upwards is a bustee.

There are other sections also objectionable, but Your Memorialists do not desire to comment on them on the present occasion.

Your Memorialists therefore humbly pray Your Honour to take their Memorial into your favourable consideration and to move Your Honour's Council for the modification of the Municipal Law in the respects herein mentioned.

And your Memorialists will ever pray.

JOTEENDRO MOHUN TAGORE.
NARENDRA KRISHNA.
DOORGACHURN LAW.
SOURINDRO MOHUN TAGORE.
SHAM CHURN LAW.
RAJENDRALALA MITRA.
RAJENDRA NARAYAN DEB.
JADOOLLAUL MULLICK.
BINOYA KRISHNA.
MAHOMED FURROKH SHAH.
DEBENDRA MULLICK.

(And many others.)

A.

WARD 6.

Statement showing the increase of assessment of premises in percentage.

	No. of premises.		No. of premises.
1 to 10 per cent.	139	141 to 150 per cent.	5
11 to 20 per cent.	264	151 to 160 per cent.	4
21 to 30 per cent.	175	161 to 170 per cent.	4
31 to 40 per cent.	162	171 to 180 per cent.	6
41 to 50 per cent.	108	181 to 190 per cent.	3
51 to 60 per cent.	80	191 to 200 per cent.	3
61 to 70 per cent.	71	201 to 210 per cent.	0
71 to 80 per cent.	35	211 to 220 per cent.	3
81 to 90 per cent.	37	221 to 230 per cent.	1
91 to 100 per cent.	26	231 to 240 per cent.	2
101 to 110 per cent.	9	241 to 250 per cent.	2
111 to 120 per cent.	13	251 to upwards	12
121 to 130 per cent.	9		
131 to 140 per cent.	4	Total No. of premises	1,177

B.			
No. of premises.	Name of street.	Former assessment.	Proposed assessment.
20/4	Bosepara Lane ...	3	15
3/1	Choudhury's Lane ...	10	24
3	" ...	24	90
7	Mohendra Bose's Lane ...	30	95
8/1	Ram Kanta Bose's 2nd Lane ...	33	86
6/2	Beerchand Gossain's Lane ...	36	84
69/4	Bagbazar Street ...	36	102
69/3	" ...	42	113
51/1	Ram Kant Bose's Street ...	48	200
3	Pal's Lane ...	48	127
25/2	Bosepara Lane ...	60	152
33/1	" ...	60	125
61	Shyambazar Street ...	60	180
191	Upper Chitpur Road ...	60	232
19	Telipara ...	60	230
6	Rajah Kali Krishna's Street ...	60	220
6	Gocul Mitter's Lane ...	72	190
5	Raja Kali Krishna's Lane ...	72	227
25/3	Bosepara Lane ...	72	212
58	Ram Kanta Bose's Street ...	84	219
41/1	Bagbazar Street ...	96	231
52	" ...	96	198
66	" ...	96	215
48/1	Ram Kanto Bose's Street ...	96	208
6	Telipara Lane ...	96	198
34	Nava Krissen's Street ...	96	336
25	Santiram Ghose's Street ...	108	306
103	Cornwallis Street ...	108	307
64/1	Bagbazar Street ...	120	570
55	Bosepara Lane ...	120	353
1/2	Hem Chandra Kar's Lane ...	120	265
6	Bulloram Ghosh's Street ...	120	385
45	Bosepara Lane ...	135	300
225	Upper Circular Road ...	144	420
19	Hurrolal Mitter's Street ...	144	350
8	Chowdhry's Lane ...	144	380
13	Bagbazar Street ...	156	316
7	Bulloram Ghose's Street ...	156	460
66	Rajah Rajbulluv's Street ...	180	327
16	Santiram Ghose's Street ...	180	438
19	Brindaban Pal's Lane ...	180	432
5	Puddo Nath's Lane ...	180	360
61	Bagbazar Street ...	180	402
3	Hem Chander Kar's Lane ...	192	333
33	Shyambazar Street ...	192	588
106	" ...	192	495
11	Gopal Biswas' Lane ...	204	663
108	Cornwallis Street ...	208	543
34	Bosepara Lane ...	216	430
17	Santiram Ghosh's Street ...	216	565
19	Mohendra Bose's Lane ...	216	410
49	Bosepara Lane ...	240	480
32	Santiram Ghosh's Street ...	240	915
15	Ram Kanta Bose's Street ...	300	700
12	Ramdhone Mitter's Lane ...	300	560
46	Bosepara Lane ...	312	832
2	Kristoram Bose's Lane ...	336	612
52	Raja Nava Kissen's Street ...	360	750
48	Bosepara Lane ...	360	725
5	Ramdhone Mitter's Lane ...	450	972
182	Upper Chitpur Road ...	600	1074
18	Rajah Rajbulluv's Street ...	720	1390
2/6	Rajah Nava Kissen's Street ...	800	1620
2/1	" ...	800	2110

C.

No. of premises.	Co-sharers in original property.	Purpose used.	Addition.	Assessment.
{ 55, Bosepara Lane.	Tarraprosono Chatterjee.	Dwelling house ..	Nil	Increased from 120 to 353.
{ 54, Bosepara Lane.	—Female—	Tenanted house ...	Nil	Increased from 120 to 144.
{ 45, Ramkanto Bose's Street.	Prosono Coomar Banerjee.	Dwelling house ...	Nil	Increased from 96 to 108.
{ 45/1, Ramkanto Bose's Street.	Kanti Chunder Banerjee.	Tenanted house ...	Nil	No increase Rs. 96.

D.

Statement showing areas assessed and appeals preferred and disposed of in cases of new assessment of houses and lands in the Town of Calcutta during the period of 9 years noted below.

(Vide Annual Administration Reports of the Municipality for the several years respectively.)

Years.	Areas assessed.	Number of objections or appeals preferred against new assessments.	Number of objections or appeals disposed of in favour of applicants.	Number of new assessments confirmed, i.e. of appeals rejected or struck off.	Number of appeals pending decision.	REMARKS.
1874 ...	North Division, Blocks Nos. VII-XI-XII-XIII and XIV.	100	56	44		
1875 ...	Blocks Nos. I, II, III, IV, V, VI, VII, IX, XV and XVI.	1,187	711	476		
1876 ...	Bounded on the north by Aunnopurna's Ghat, south by Shovabazar Street, east by Upper Chitpore Road, and west by the river Hughly.	21	17	4		
1877 ...	Wards Nos. 6, 3, 4 and 1	138	97	41		
1878 ...	Wards Nos. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18.	97	26	43	28	
1879 ...	Ward No. 5 and a portion of Ward No. 2.	3	4	2		
1882-83 ...	Ward No. 2	24	20	4		
1883-84 ...	Wards Nos. 1, 3, 4, 6, and 9.	257	180	77		Of the 257 appeals, 90 were against old assessments.
1884-85 ...	Wards Nos. 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18.	207	86	54	67	Of the 207 appeals, 142 were against old assessments.
	Total objections preferred during the above 9 years.	2,037	1,197	745	95	
	Deduct number of appeals against old assessment.	232				
	Net total of objections against new assessment.	1,805*				

* This divided by 9 gives the average number of objections (about 200) per annum.

Note on the memorial addressed to the Lieutenant-Governor against the Assessment Sections of the New Municipal Consolidation Act.

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PARA.

1. Nothing to justify the re-opening of the question.
3. The enhancement that has taken place was foreseen.
5. The case for the memorialists stated; they ask for the English Law.
7. Which in this instance is (1) inapplicable, (2) erroneously applied.
11. By English Law the owner himself may be the hypothetical tenant, and what is a reasonable rent for him to pay should be computed.
20. Case of mansion houses discussed in appendix A.
21. Inequalities of rating under the old law in Calcutta.
25. Whereby those who, if anything, should have paid most, paid least, and *vice versa*.
33. The solution proposed in the Act under all the circumstances the best.
34. Especially when read with the 'exception' clause.
35. Objection to market value considered.
37. Five per cent. the lowest admissible percentage on land and buildings combined.
41. Question of the total exemption of the houses of the very poor.
45. Second objection; owners required to pay rates for bustees.
48. Justified on the grounds of public policy.
50. But also perfectly equitable.
51. Conclusion.

APPENDIX A. ON THE RATING OF MANSIONS IN ENGLAND.

1. Till lately the rating of mansions was the one great blot in the English system.
4. No real parallel to the case of residential houses in Calcutta.
6. More recent history of the question.
7. Summary of Hedley's pamphlet in 1874.

APPENDIX B. ON THE EQUITABLE INCIDENCE OF MUNICIPAL TAXATION IN CALCUTTA.

2. Ground landlords in a growing city the last class that ought to be exceptionally favoured.
7. While excess rates on Trade and Commerce are unfair and disastrous.
15. Yet in Calcutta the mercantile wards obviously support the residential by their rates and taxes.
17. As shown by statistics.
40. The incidence of rating on each class of rate-payers considered.

APPENDIX C. EXTRACTS FROM EVIDENCE TAKEN AT THE HEARING OF OBJECTIONS.

APPENDIX D. ON THE PRINCIPLE OF LOCAL SELF-GOVERNMENT.

1. No Assessment Committee at Bombay.
2. Power in England much restricted, and made over to responsible officers.
3. What is 'the principle' of Local Self-Government.
4. Popular bodies too fond of unlimited power.
11. And need checks.

NOTE.

The memorial presented to His Honour the Lieutenant-Governor protesting against certain provisions of the New Municipal Consolidation Act has been sent to me for comment, and in reply thereto I beg to submit the following note.

SHOULD THE QUESTION BE RE-OPENED.

1. In the first place, I would point out that the memorial discloses no sufficient ground to warrant the re-opening of this question after so brief an interval.

Nothing has occurred to justify the re-opening of the question after so short an interval.

That the standard of 5 per cent. on the present estimated cost of building, as an equivalent to the annual rent, would increase the valuation of most of the houses occupied by their owners in Calcutta, was not merely fully contemplated when the Calcutta Municipal Consolidation Act was passed, but was even put prominently forward as the chief justification for the new section. The argument employed was substantially this. Looking to the ordinary return in Calcutta on capital invested in building houses, 5 per cent. is a very low estimate of the rent realised for such buildings: that is, of the net rent after all outgoings for repairs and other expenditure necessary to keep the premises up to their letting value. But houses built by persons for occupation by themselves have been for various causes valued much below this standard. This constitutes a grave injustice, as other rate-payers have to pay higher rates in consequence of this low valuation, and therefore the remedy proposed is to

take 5 per cent. as the net rent in ordinary cases, allowing a lower percentage to be taken whenever exceptional circumstances may render the higher percentage excessive.

2. If any one ventured to deny the effect this would have on the valuation of such houses, it was those who opposed, not those who advocated the section. The Hon'ble Kalinath Mitter, in his speech opposing the section, said—"I think it is an error to suppose that as a general rule the owner of a residential house has hitherto been under-assessed. I admit that in certain exceptional cases it has been so, but barring those exceptions, I submit that the statement of the Hon'ble Member in charge of the Bill is wholly erroneous, and, if necessary, I think it would be well, before the Council finally decides this matter, to have a thorough enquiry on the point." As the statement made was that, if these houses were valued at less than 5 per cent. on the legitimate cost, they must necessarily in Calcutta be under-valued, the assertion to be relevant must have meant that they were not, save in the case of a few exceptions, valued at less than 5 per cent. Accordingly, I replied: "Can anyone doubt that in the part of the town where this Council is situated, or on the river bank, or in Chowringhi, houses are assessed at fully 5 per cent. on their cost, probably more—either 6 or 7 per cent? If there is any doubt that in the native part of the town residential houses are assessed less highly, then why this outcry against 5 per cent? So far from there being an outcry, we ought to be thanked for reducing the valuation to 5 per cent. Is anything more necessary to show that my fundamental contention is right?"

3. It is as clear as possible therefore that the section was introduced and passed with the fullest knowledge that it would add considerably to the valuation of houses occupied by their owners. As such, it was vigorously opposed in Council. As such it was vigorously opposed out of Council by a deputation to the Lieutenant-Governor. As such it was vigorously opposed in a memorial addressed to the Viceroy and Governor-General before he assented to the Bill, to which the present memorial refers. It was not till all these remonstrances had failed that the Bill became law. What has happened in the past year then to justify a reconsideration of it? Two wards have been completely re-valued: one, No. 25, a ward recently in the suburbs, has few residential houses in it, and its revaluation presents no results that specially bear on this question. The other ward, No. 6, is full of such houses. Six and a quarter years have elapsed since its last valuation, and the result is that the aggregate valuation has increased from Rs. 5,54,866* to Rs. 6,81,319—an increase of 22·8 per cent. Considering the great increase in the value of land during those six and a quarter years, and the number of new houses that have sprung up (all of course included in this increase), it is, I think, patent on the face of these statistics that the increase has been most moderate, so moderate as to furnish grounds for apprehension that the legal standard has been applied with mistaken leniency.

Besides the reassessment of Ward No. 6, Ward No. 1, a ward full of houses occupied by their owners, has also come under re-valuation in the last quarter of the year, and the enhancements resulting therefrom have furnished much fuel to the agitation. The figures are not yet known, as the objections are under decision: but my impression is that the outcome will be as reasonable there as it has been in Ward No. 6. There is a further test which can be looked to, the safeguard of appeal to the Small Cause Court. Very few appeals have been preferred during the year. In the principal one, the case of Baboo Nundo Lal Bose, the valuation was admitted to be fair, if a certain principle of valuation was upheld, which the Court did uphold. *In not one single appeal up to date has the valuation made by the Chairman or Vice-Chairman on objection been reduced.*

4. I maintain therefore that so far nothing whatsoever has occurred during the first year of the operation of the section to justify an appeal for its reconsideration; the working of it has been most carefully supervised, and the enhancement of valuations under it very moderate.

* These figures are quoted from the memorial: they are incomplete, as they not only leave out the pending objections, the decision of which has raised the figures to Rs. 5,74,064, and Rs. 7,05,512, but also all the bustees in the ward valued at above one-half lakhs, not much changed by its re-assessment.

THE CASE OF THE MEMORIALISTS AS REGARDS SECTION 122.

5. As, however, a meeting of rate payers has been held in the Town Hall, and a further memorial drawn up and submitted, it is desirable that the arguments put forward to Government should be further examined. I think that, so far as the memorial is directed against section 122, full justice is done to it by the following summary of its contentions:—

The case for the memorialists stated briefly. They ask for precisely the same law as in England.

- (1) The English Law of valuing houses for rating purposes is very fair and equitable.
- (2) This law, which is still in force in Calcutta as regards houses built for letting purposes, operated very fairly and equitably in the case of houses occupied by their owners which, with perhaps certain inevitable exceptions, were rated quite as high as they should have been.
- (3) Now, in order to prevent the English principle operating any longer, and to enhance the valuation of such houses, a new principle is introduced, which is most unfair and unjust in its operation, which considerably augments the valuation of houses occupied by their owners, and places them at a disadvantage compared with their fellow rate-payers in Calcutta.
- (4) And it is asked that 'such houses may be rated at the annual letting value to be determined with regard to the purposes for which they were built, and for which they are capable of being used.'

The last request, taken verbatim from the memorial, is excellent as a proposition of law and equity, but is entirely misapplied to the real desire of the memorialists. It is precisely because these houses were not being rated at a reasonable letting value, having regard to the purposes for which they were built—occupation by their owners—but at a letting value, having regard to a totally different purpose, i.e. hiring by a person not the owner, that the section was deemed necessary.

6. In commenting on this memorial, it must be understood at the outset that there is no possible room for doubt that if the quantity or quality of the accommodation enjoyed, or the money legitimately sunk in building such houses, is looked to, residential houses, that is houses built for occupation by their owners, are conspicuously under-valued as compared with other classes of buildings in Calcutta. The most cursory examination will show this, and also that it is not due to what would, if correct, be a complete answer *pro tanto*, the greater cheapness of the site. The land on which these houses stand is, if anything, more valuable and costs more than the land on which the average of houses built for letting purposes stand. This marked difference in valuation between the two classes of houses is more rather than less than twofold. What then do the memorialists mean when they protest against unfair treatment? They mean this, that the English law has (as they would say) wisely and equitably decided that not the money sunk in constructing a building, nor its size, nor its accommodation, nor any other test, is to be the standard of valuation for rating purposes, but such standard should be the rent for which it would let from year to year, and that tried by this test residential houses have been fully as highly assessed as they should be in Calcutta. They urged that it is unfair to discard this, the English test, because its operation is favourable to this class of houses, and to substitute for it, to their disadvantage, other tests which have not been adopted in England.

7. I do not think the case of the memorialists can be more fairly or forcibly put than this, and it is for the Government to say whether the reply to it is decisive or not. Briefly stated, the substance of this reply is (1) that in this particular matter the English standard is, for a special reason, manifestly ill-adapted to Calcutta; (2) that the English standard has been very erroneously applied in the past in Calcutta, and its correct application would present totally different results from those hitherto obtained.

- (I) There is surely no reason in the world why a standard which, having reference to English manners and customs, may have been deemed the best in England, should necessarily be followed in Calcutta, where, having reference to

In the particular point at issue, the English law is inapplicable.

local manners and customs, it is obviously defective. Yet this is transparently the case. In England there is no marked distinction between houses built for occupation by families and houses built for occupation by single men whose families live in the country; also there is no strong prejudice against living with a family in a hired house; hence the rent which a tenant may be willing to pay is perhaps on the whole in most cases the best practical test of the quality of the house. In Calcutta there is a marked and radical difference in structure between houses built by persons as a residence for their own families and all other houses built with the object of letting them, residences for Europeans, residences for native gentlemen without families, public offices, places of business, shops, &c. There is an efficacious demand for hiring the latter, there is no such demand for hiring family houses, and in explanation of this absence of demand, it has been freely admitted in evidence before me that so strong is the prejudice against maintaining one's family in a hired house that "a person would rather have two or three cottahs of his own with tiled huts to live in, than live in a hired pucca house." Even buying a house ready built by some one else is regarded as less desirable than building for oneself (see Appendix C). Hence a house built as a family residence is at a marked disadvantage in finding any tenant other than the owner compared with all other classes of houses, which depreciates its value very materially, probably 50 per cent. when tried by this test, alone. Surely no better reason could be adduced for urging that this test, however suitable elsewhere and for other classes of houses, is not suitable for this class of houses in Calcutta.

8. (II) This consideration alone seems to me to furnish ample justification for adopting some other standard of value in Calcutta for this class of houses, but, as a fact, the case is much stronger. The interpretation put by the memorialists upon the English law is one which the law courts and the authorities on the subject have frequently repudiated; and it is only its improper, not its proper, application which helps the memorialists. It is assumed, altogether wrongly, that a person occupying his own house is not a tenant, and that some other tenant must be found, and the rent this other tenant would pay be ascertained; whereas according to the English rulings an owner may be his own tenant, and the reasonable value of the tenancy to him is to be computed. This at once revolutionizes the standard. Just as a house built for occupation by its owner in Calcutta would have to be valued very low if the owner must find a tenant other than himself, so it should be valued very high if the value of the tenancy to himself is looked to. It is notorious that the 15 per cent. over and above the market value which the Land Acquisition Act requires to be paid, does not nearly reconcile owners in Calcutta to the acquisition of their family houses.

9. The English law on the subject of rating (6 and 7 William IV, C. 96) is that the net annual value of hereditaments shall be "the rent at which the same might reasonably be expected to let from year to year free of all tenants' rates and taxes, and title commutation charge, if any, and deducting therefrom the probable average annual cost of the repairs, insurance and other expenses, if any, necessary to maintain them in a state to command such rent."

10. Obviously this standard is much more easily applied to buildings which ordinarily are let, or at least are of the same class as others that ordinarily are let, than to buildings not intended to be let and ordinarily occupied by their owners. As regards the latter class of buildings, the system adopted,—I think I may say invariably adopted by English authorities,—is to assume a hypothetical tenant, and consider what rent such hypothetical tenant might reasonably be expected to pay for a year-to-year tenancy. So far all would be agreed, but the next questions are (a) whether the present occupier, be he the owner or otherwise, is to be excluded from the number of possible hypothetical tenants or not? and (b) how the value of the tenancy is to be computed? and we find that, when cases of this kind have come before the superior courts in England, they have decided that the owner of the building is to be regarded as a possible hypothetical tenant of his own property, and that the value of the tenancy to him may be calculated in precisely the same way as the Act calculates it.

11. (a) This was the very contention in the case of the Queen *versus* the School Board for London (55 L. J. Q. B. D. 53). The School Board in appeal contended, first, that the

The English standard has been misunderstood in Calcutta and erroneously applied.

In English law in such cases a hypothetical tenant is to be assumed.

Who may be the owner himself.

School Board owning the premises should not be supposed to be in the market anxious to rent premises, but should be excluded from the number of hypothetical tenants who might be supposed to be willing to rent the school premises; *second*, that the only true indication of rateable value was the rent for which the premises could in their present condition be let to a hypothetical tenant from year to year, supposing they were not used for Board Schools, but were applied to any other use or purpose for which they could be made available for a tenant.

12. The School Board's contention was not allowed. Cave, J., said—"When you want to find what a hypothetical tenant will give, you must not take a man who does not want the premises for the purpose for which they were built, but wants to use them for some other purpose, unless you can first show that they cannot be let for the purpose for which they were built." The case was appealed, and the decision upheld in appeal, Lord Esher, M.R., remarking that "in estimating the rent no tenant was excluded, and the actual occupier might be included *and the owner if he was the occupier*; and Lord Justice Bowen—"the test of rateable value was the rent for which the premises might reasonably be expected to let to a tenant. In estimating that in the present case, the rent for which the premises may be reasonably expected to be let to the Board themselves may be considered, for how could the only body likely to require the premises be excluded from the estimate, that is, why should the only body likely to require or use the premises be excluded from the estimate of rent payable."

13. A precisely similar case occurred at Madras, and was decided by the High Court there. The Madras Municipality rated the lying-in hospital at Rs. 1,000 a month, and in appeal the Magistrates reduced the assessment to Rs. 660; but at the request of the Municipality referred the matter to the High Court. The High Court decided in favour of the Municipality. The judgment expressly states that in rating property it must generally be assumed that the hypothetical tenant *must be in the same position, and use the building in the same way as the party rated, for the object is to ascertain its intrinsic value to the owner in its present condition*. The Madras High Court then refers at length to the School Board case above quoted, and concludes: "Having these principles in view, we are of opinion that the lying-in hospital should not be valued at the rent which it would fetch if it were offered in the open market without reserve: admittedly there is but one building in Madras specially eligible for use as a lying-in hospital, and it is occupied by the owner. If the owner, the only person likely to require the premises, were excluded from the market, then the hypothetical tenant would take advantage of the absence of demand for it, and pay no more than those who require it for use other than as a hospital would choose to pay."

14. Do not these decisions in principle apply exactly to the case of houses built for occupation by their owners? The owners are the only persons in Calcutta, looking to the known prejudice against living with a family in a hired house, who can possibly "use the building in the same way as the party rated," while the object of the memorialists is to get "the intrinsic value to the owner in its present condition" indefinitely depreciated by only considering as the hypothetical tenant one who, by the very fact of his not being the owner, cannot use the building in the same way as the party rated, and therefore cannot be expected to pay full value for the occupation.

15. (b) The owner, then, if he built the house for his own occupation, and actually does occupy it, must undoubtedly be regarded as among the possible hypothetical tenants; and the question then arises, how is the rent which he may reasonably be expected to pay to be estimated?

16. No doubt a comparison with other houses that are built for letting purposes in Calcutta is a perfectly fair method of valuation, but this would raise the assessment of these houses far more than the system in the new Act. If residential houses are compared with houses built for the purpose of letting, whether as regards the number of their rooms, their superficial area, their cubical contents, the amount of brickwork, the conveniences they offer, or any similar standard of comparison, the valuation thus ascertained would be decidedly in excess of what they are now being valued at. What the owners want is that they should be compared, not with this class of houses, but with the few residential houses which the owners have for some reason or other been

compelled to leave, and for which they have been compelled to obtain such tenants as they can get, with no market, and all the well-known prejudices against this form of living! Is it not enough to state this claim to secure its rejection by any right-minded disinterested person?

17. But though this distinction between dwelling-houses built for letting and dwelling-houses built for the residence of the owner is not prevalent in England, there are plenty of buildings which furnish us with an indication of how the law would be applied under similar circumstances. Large manufactories cannot easily be let, and in the case of *R. versus Hampton* (28 L. J. M. C., 135) Mr. Justice Wightman said: "When in practice a tenant for property not usually let has rarely, if ever, been known, a hypothetical tenant must be assumed, and the terms of such tenancy are not difficult to be conceived. The hypothetical tenant must be assumed to pay the rent of the land and *adequate remuneration for fixed capital invested therein*, and the local rateable value would be such a sum as would pay the rent of the land and profit on fixed capital therein." Similarly in the case of a light-house, the decision was: "Where a building would not let, but is valuable to the owners, the annual value must be calculated *on the rent of the land and fair interest on the expense of the building*" (*The Blyth Harbour and Dock Company versus Guardians of Tynemouth Union Glens Archbold*, page 41).

18. There are many other similar decisions in the case of hospitals, railway stations, reservoirs, &c., which abundantly justify even from English precedents the principle of the Act, which may be thus stated, "that when a hypothetical tenant has to be assumed (*i.e.* in the case of houses not built for letting purposes) he shall be presumed to pay 5 per cent. as annual rental on the value of the land, plus 5 per cent. on the estimated present cost of constructing the building, less depreciation, unless exceptional circumstances can be adduced which make 5 per cent. excessive, when any lower percentage can be taken."

19. I do not think we are bound slavishly to follow English law in India when it can be shown that in regard to the question in point, sentiments, manners and customs are different; but even if English precedent is to be our guide, I think we have abundant grounds to infer that the principle adopted of rating a hypothetical tenancy has been over and over again affirmed by English decisions.

20. The memorialists, however, refer to the rating of "mansions" in England as helping their case; but the rating of English mansions furnishes no real parallel to that of residential houses in Calcutta. If there is any real parallel to the English mansion in Calcutta, it is to be found in Government House, the Museum, Writers' Buildings, the High Court and other large public buildings, which have been always fully valued in Calcutta, the cost price in the case of all recent buildings being the test usually taken to ascertain the rent which the hypothetical tenant should pay. As I do not wish to encumber this reply with a long digression on the subject of the rating of English mansion houses, I have appended a note which will, I think, satisfy any one who reads it that, abuse as it has been, this system affords no real support to the case of the memorialists: in fact that English surveyors are now dealing with it in a very similar way to that which Act II (B.C.) of 1888 adopts in dealing with the somewhat similar abuse in Calcutta.

INEQUALITIES OF RATING UNDER THE OLD ACT.

21. Having written this much by way of direct reply, I will now state why in my judgment it was desirable, when the Municipal Act was being recast, to modify the assessment chapter, and then to vindicate the precise character of the amendments introduced. For this purpose I must first explain what were the rating inequalities in Calcutta under the old law.

Why the change in the new Act was necessary.
Inequalities and iniquities of rating in Calcutta under the old Act explained.

22. The rate-paying community in Calcutta may, for practical purposes, be divided into the following groups:—

- (1) Occupiers of offices, shops, places of business, &c., mainly built for letting purposes, though sometimes owned by their occupiers.
- (2) Occupiers of residences built for letting purposes.
- (3) Owners of the above offices or residences when not the occupiers.
- (4) So called owners who are also the occupiers of tiled huts in bustees.
- (5) Owners of bustee lands.

(6) Owners living in their own houses, built for such occupation and not for letting purposes.

(7) Owners who are also occupiers of public buildings, not built for letting purposes, mostly Government or the Port Commissioners.

23. In rating the premises occupied by all these persons, one and

No deduction allowed for repairs.

the same rule under the old Act applied; not the English rule quoted above, for the English rule allows a deduction from the gross rent which a tenant may reasonably be expected to pay from year to year, sufficient to defray all rates and taxes and to keep the building in a state of repair such as to enable it to continue to command the rent, but (section 104) the rule that the annual assessment shall be the *estimated gross annual rent at which the house or land might reasonably be expected to let from year to year*. So far as I can ascertain, this exception in Calcutta to the ordinary rule was due to an entirely mistaken impression that, as the deductions would be approximately uniform, it would make no difference whether they were made or not made. If 20 per cent. were allowed of the gross rent to find the rateable value, 20 per cent. must be added, it was said, to the rate to balance this deduction, and the outcome would be the same. That this was fallacious, and therefore that the Calcutta rule was unfair, is easily shown. Tiled huts need a great deal more repairs than pucca buildings. A tiled hut owner has probably to spend at least 25 per cent. of the rental to keep it in repair; the owner of a pucca house not more than 10 to 15 per cent. Again, land needs no repairs at all; hence no deduction for repairs in this case should be allowed. Public offices were usually valued in accordance with the system of the new law, Government admitting the equity of the test. The capital spent upon them being known, from 5 to 6 per cent. on the outlay was taken as the rent which a hypothetical tenant would pay*. Houses occupied by their owners were valued, as already explained, on the assumption that the hypothetical tenant must be some one other than the present occupant, and therefore some one not wanting the house, and with a strong sentiment against living with his family in a hired family house.

24. Hence on a fair probable estimate it may be said that group (4), tiled hut owners, had their huts overvalued by about 25 per cent.

Groups (1), (2), and (3), occupiers and owners of houses and offices built for letting purposes, had their houses and offices overvalued by about 15 per cent.

Group (5), owners of bustee lands, were correctly valued, *i.e.* relatively but not absolutely undervalued.

Group (7), owners and occupiers of large public buildings, were similarly correctly valued: 5 to 6 per cent. was taken as the net return and not the gross return on house property, and therefore the valuation was fair *per se*, but relatively to groups (1) to (4) they were also undervalued.

Group (6) was undervalued by 30 to 50 per cent. if tested by comparison with the rule for valuing Government buildings, or by still more if tested by comparison with the accommodation, cost or cubical space of houses built for letting purposes.

25. The above is an approximate estimate of the inequalities of valuation in

Calcutta under the old Act, assuming that taxation of property for the purposes of municipal administration should be proportioned to its value. On the whole, looking to the enormous difficulty of fixing differential rates for different classes and sizes of property, it is probably best to levy rates in proportion to value, taking care only to secure the best and most correct standard of value; it may be many years before even in England this system is departed from, and I therefore never suggested any departure from it in the new Act. The valuation of one class of houses at 5 per cent. was intended to be a fair equivalent to the net rental, *i.e.*, gross rental less 10 per cent. payable by the other class; but in considering the urgency of redressing existing inequalities, it is obviously a matter of importance to see how the question of general equity stands. Economic science points out very clearly which are the classes that benefit most, and which those that suffer most from the equal rating system, and it is surely very significant of the equities of this question in

* There is reason to fear, however, that in some cases the Commissioners have fixed the hypothetical rent of such buildings much too high, such as the Port Commissioners' Office and the Bank of Bengal. The new section may in such cases prove as equitable in pruning down excessive valuations as in running up those which were too low.